

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT				
APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER Paulsen 2-15C5				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT ALTAMONT				
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME				
6. NAME OF OPERATOR EP ENERGY E&P COMPANY, L.P.						7. OPERATOR PHONE 713 997-5038				
8. ADDRESS OF OPERATOR 1001 Louisiana, Houston, TX, 77002						9. OPERATOR E-MAIL maria.gomez@epenergy.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) Fee			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee') Paulsen Family Trust						14. SURFACE OWNER PHONE (if box 12 = 'fee') 801-619-9200				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') 8494 South 700 East, Ste 150, Sandy, UT 84070						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN		
LOCATION AT SURFACE		906 FNL 1814 FWL		NENW	15	3.0 S	5.0 W	U		
Top of Uppermost Producing Zone		1200 FNL 1150 FWL		NWNW	15	3.0 S	5.0 W	U		
At Total Depth		1200 FNL 1150 FWL		NWNW	15	3.0 S	5.0 W	U		
21. COUNTY DUCESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 906			23. NUMBER OF ACRES IN DRILLING UNIT 640				
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1500			26. PROPOSED DEPTH MD: 12338 TVD: 12300				
27. ELEVATION - GROUND LEVEL 5913			28. BOND NUMBER 400JU0708			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Duchesne City				
Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
COND	17.5	13.375	0 - 600	54.5	J-55 ST&C	8.8	Class G	758	1.15	15.8
SURF	12.25	9.625	0 - 1700	40.0	N-80 LT&C	9.4	Type V	173	3.16	11.0
							Class G	195	1.3	14.3
I1	8.75	7	0 - 8938	29.0	HCP-110 LT&C	9.8	Class G	465	1.91	12.5
							Class G	241	1.65	13.0
L1	6.125	5	8738 - 12338	18.0	HCP-110 LT&C	11.5	Class G	213	1.47	14.2
ATTACHMENTS										
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Maria S. Gomez			TITLE Principal Regulatory Analyst			PHONE 713 997-5038				
SIGNATURE			DATE 02/05/2014			EMAIL maria.gomez@epenergy.com				
API NUMBER ASSIGNED 43013528420000			APPROVAL Permit Manager							

**Paulsen 2-15C5
Sec. 15, T3S, R5W
DUCHESNE COUNTY, UT**

EP ENERGY E&P COMPANY, L.P.

DRILLING PROGRAM

1. Estimated Tops of Important Geologic Markers

<u>Formation</u>	<u>Depth</u>
Green River (GRRV)	3,930' TVD
Green River (GRTN1)	4,880' TVD
Mahogany Bench	5,760' TVD
L. Green River	7,050' TVD
Wasatch	8,830' TVD
T.D. (Permit)	12,300' TVD / 12,338' MD

2. Estimated Depths of Anticipated Water, Oil, Gas or Mineral Formations:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River (GRRV)	3,941' MD / 3,930' TVD
	Green River (GRTN1)	4,897' MD / 4,880' TVD
	Mahogany Bench	5,782' MD / 5,760' TVD
Oil	L. Green River	7,079' MD / 7,050' TVD
Oil	Wasatch	8,868' MD / 8,830' TVD

3. Pressure Control Equipment: (Schematic Attached)

A 4.5" by 20.0" rotating head on structural pipe from surface to 600' MD/TVD. A 4.5" by 13-3/8" Smith Rotating Head (Diverter System) from 600' MD/TVD to 1,700' MD/TVD on Conductor. A 5M BOP stack, 5M kill lines and choke manifold used from 1,700' MD/TVD to 8,938' MD/ 8,900' TVD. A 10M BOE w/ rotating head, 5M annular, blind rams & mud cross from 8,938' MD/ 8,900' TVD to TD (12,338' MD / 12,300' TVD).

The BOPE and related equipment will meet the requirements of the 5M and 10M system.

OPERATORS MINIMUM SPECIFICATIONS FOR BOPE:

The surface casing will be equipped with a flanged casing head of 5M psi working pressure. An 11" 5M x 11" 10M spool, 11" x 10M psi BOP and 5M psi annular will be nipped up on the surface casing and tested to 250 psi low test / 3,000 psi high test for 10 minutes each prior to drilling out. The surface casing will be tested to 1,000 psi. for 30 mins. Intermediate casing will be tested to the

greater of 1,500 psi or 0.22 psi/ft. The choke manifold equipment, upper Kelly cock and floor safety valves will be tested to 5M psi. The annular preventer will be tested to 250 psi low test / 4,000 psi high test. The 10M BOP will be installed with 3-½" pipe rams, blind rams, mud cross and rotating head from surface shoe to TD. The BOPE will be hydraulically operated.

In addition, the BOP equipment will be tested after running intermediate casing, after any repairs to the equipment and at least once every 30 days. Pipe and blind rams will be activated on each trip, annular preventer will be activated weekly and weekly BOP drills will be held with each crew.

Statement on Accumulator System and Location of Hydraulic Controls:

Precision Rig # 404 is expected to be used to drill the proposed well. Operations will commence after approval of this application. Manual and/or hydraulic controls will be in compliance with 5M and 10M psi systems.

Auxiliary Equipment:

- A) Pason Gas Monitoring 600' - TD
- B) Mud logger with gas monitor – 1,700' to TD
- C) Choke manifold with one manual and one hydraulic operated choke
- D) Full opening floor valve with drill pipe thread
- E) Upper and lower Kelly cock
- F) Shaker, de-sander and centrifuge

4. Proposed Casing & Cementing Program:

Please refer to the attached Wellbore Diagram.

All casing will meet or exceed the following design safety factors:

- Burst = 1.00
- Collapse = 1.125
- Tension = 1.2 (including 100k# overpull)

Cement design calculations for intermediate and production hole will be based on minimum 10% excess over gauge hole volumes. Actual volumes pumped will be a minimum of 10% excess over caliper volume to designed tops of cement for any section logged. A minimum of 50% excess over gauge volume will be pumped on surface casing.

5. Drilling Fluids Program:

Proposed Mud Program:

Interval	Type	Mud Weight
Surface	WBM	8.8 – 9.4
Intermediate	WBM	9.4 – 9.8
Production	WBM	9.8 – 11.5

Anticipated mud weights are based on actual offset well bottom-hole pressure data. Mud weights utilized may be somewhat higher to allow for trip margin and to provide hole stability for running logs and casing.

Visual mud monitoring equipment will be utilized.

6. **Evaluation Program:**

Logs:

Mud Log: 1,700' MD/TVD – TD

Open Hole Logs: Gamma Ray, Neutron-Density, Resistivity, Sonic, from surface casing shoe to TD.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 12,300' TVD equals approximately 7,355 psi. This is calculated based on a 0.598 psi/ft gradient (11.5 ppg mud density at TD).

Maximum anticipated surface pressure equals approximately 4,649 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/ft).

Maximum anticipated surface pressure based on frac gradient at 7" casing shoe is 0.8 psi/ft at 8,900' TVD = 7,120 psi

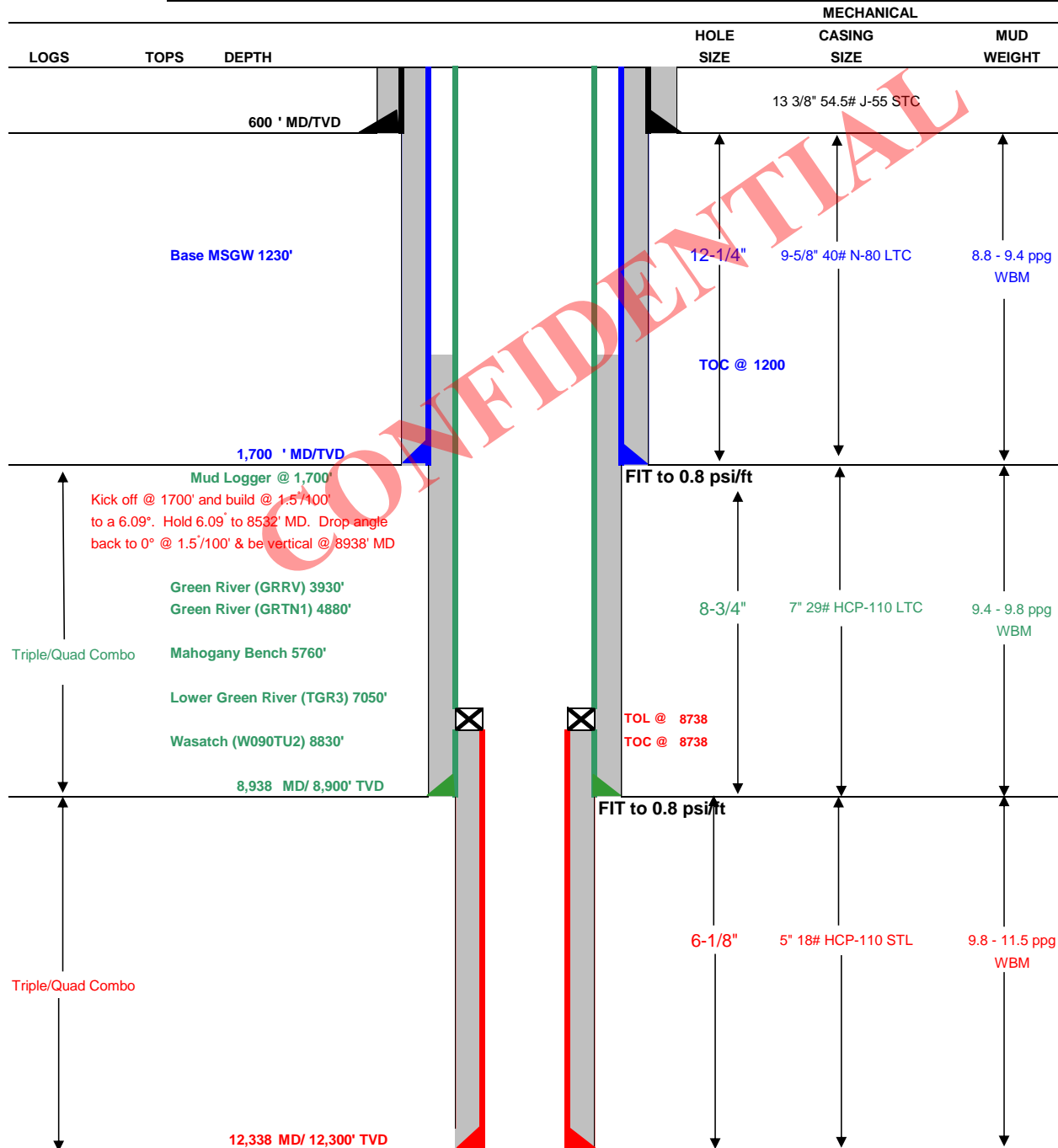
BOPE and casing design will be based on the lesser of the two MASPs which is 4,649 psi.

8. **OPERATOR REQUESTS THAT THE PROPOSED WELL BE PLACED ON CONFIDENTIAL STATUS.**



Drilling Schematic

Company Name: EP ENERGY	Date: May 1, 2014
Well Name: Paulsen 2-15C5	TD: 12,338
Field, County, State: Altamont, Duchesne, Utah	AFE #: TBD
Surface Location: Sec 15 T3S R5W 906' FNL 1814' FWL	BHL: Sec 15 T3S R5W 1200' FNL 1150' FWL
Objective Zone(s): Green River, Wasatch	Elevation: 5912.9
Rig: Precision 404	Spud (est.): TBD
BOPE Info: 4.5 x 13 3/8 Diverter System w/ rotating head from 600' to 1,700' 11 10M BOPE w/ rotating head & 5M annular from 1,700' to 8,938' 11 10M BOPE w/ rotating head, spacer spool, 5M annular, flex rams, blind rams, single w/ flex rams from 8,938' to TD	



DRILLING PROGRAM

CASING PROGRAM	SIZE	INTERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION
CONDUCTOR	13 3/8"	0	600	54.5	J-55	STC	2,740	1,130	514
SURFACE	9-5/8"	0	1700	40.00	N-80	LTC	5,750	3,090	737
INTERMEDIATE	7"	0	8938	29.00	HCP-110	LTC	11,220	9,750	797
PRODUCTION LINER	5'	8738	12338	18.00	HCP-110	STL	13,940	15,450	495

CEMENT PROGRAM		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
CONDUCTOR		600	Class G + 3% CACL2	758	100%	15.8 ppg	1.15
SURFACE	Lead	1,200	EXTENDACEM SYSTEM: Type V Cement + 5 lbm/sk Silicalite Compacted + 0.25 lbm/sk Kwik Seal + 0.125 lbm/sk Poly-E-Flake + 2% Bentonite	173	75%	11.0 ppg	3.16
	Tail	500	HALCEM SYSTEM: Glass G Cement + 3 lbm/sk Silicalite Compacted + 1% Salt + 0.3% Econolite + 0.25 lbm/sk Poly-E-Flake + 0.25 lbm/sk Kwik Seal + 0.5% HR-5	195	50%	14.3 ppg	1.30
INTERMEDIATE	Lead	5,388	EXPANDACEM SYSTEM: Class G Cement + 6% Bentonite + 0.2% Econolite + 0.3% Versaset + 0.7% HR-5 + 0.3% Super CBL + 0.2% Halad(R)-322 + 0.125 lbm/sk Poly-E-Flake	465	10%	12.5 ppg	1.91
	Tail	2,350	BONDCEM SYSTEM: Class G Cement + 4% Bentonite + 0.25 Poly-E-Flake + 0.1% Halad-413 + 5 lb/sk Silicalite Compacted + 0.15% SA-1015 + 0.5% HR-5	241	10%	13.0 ppg	1.65
PRODUCTION LINER		3,600	EXTENDACEM SYSTEM: Class G Cement + 0.3% Super CBL + 0.6% SCR-100 + 0.3% Halad-413 + 0.125 lbm/sk Poly-E-Flake + 3 lbm/sk Silicalite Compacted + 20% SSA-1 + 0.1% SA-1015	213	25%	14.20	1.47

FLOAT EQUIPMENT & CENTRALIZERS	
CONDUCTOR	PDC drillable guide shoe, 1 joint, PDC drillable float collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing.
SURFACE	PDC drillable guide shoe, 1 joint casing, PDC drillable float collar & Stage collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing & every 3rd joint thereafter.
INTERMEDIATE	PDC drillable 10M,P-110 float shoe, 1 joint, PDC drillable 10M, P-110 float collar. Thread lock all float equipment. Maker joint at 7,000'.
LINER	Float shoe, 1 joint, float collar, 1 joint, landing collar. Thread lock all FE. Maker joints every 1000'.

PROJECT ENGINEER(S): Brad Macafee 713-997-6383

MANAGER: Bob Dodd

EP ENERGY E&P COMPANY, L.P.
PAULSEN 2-15C4
SECTION 15, T3S, R4W, U.S.B.&M.

BEGIN AT THE INTERSECTION OF 700 WEST STREET AND US 40 IN DUCHESNE, UTAH AND PROCEED NORTH ON GRAVEL COUNTY B ROAD APPROXIMATELY 3.74 MILES;

CONTINUE NORTHERLY 1.03 MILES ON DIRT ROAD TO AN INTERSECTION;

TURN LEFT AND TRAVEL WEST AND THEN SOUTH 0.97 MILES ON A DIRT ROAD TO THE BEGINNING OF THE PROPOSED ACCESS ROAD;

TURN RIGHT AND FOLLOW ROAD FLAGS SOUTHWESTERLY 0.25 MILES TO THE PROPOSED WELL LOCATION;

TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 5.99 MILES.

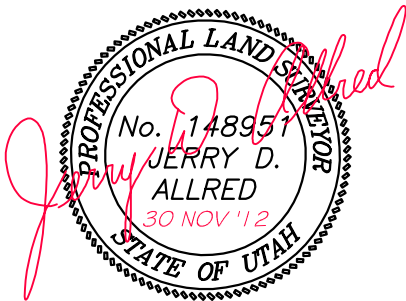
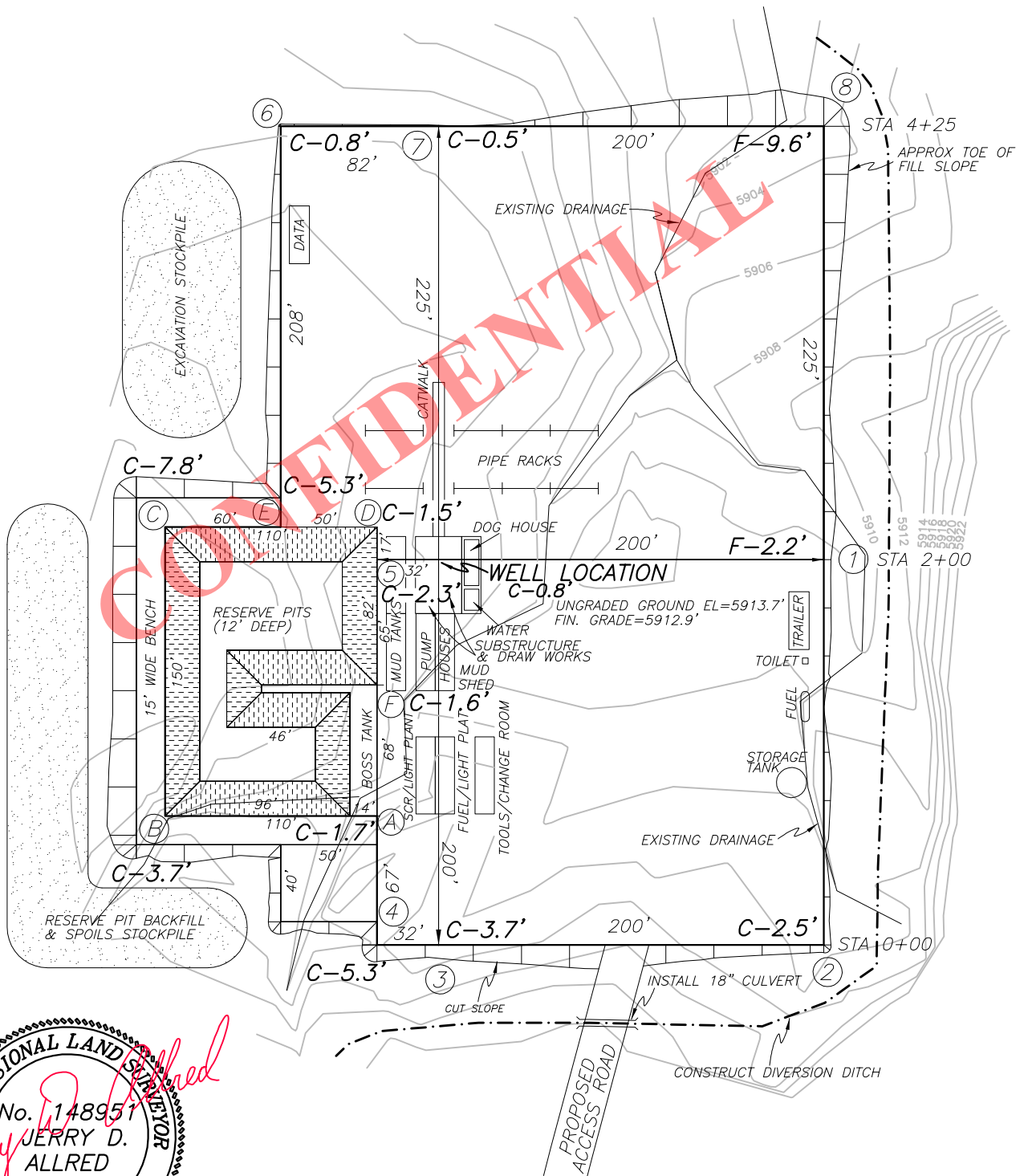
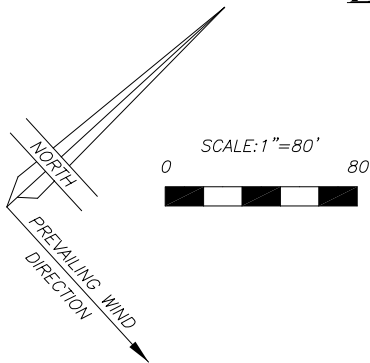
EP ENERGY E & P COMPANY, L.P.**FIGURE #1**

LOCATION LAYOUT FOR

PAULSEN 2-15C5

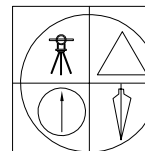
SECTION 15, T3S, R5W, U.S.B.&M.

906' FNL, 1814' FWL



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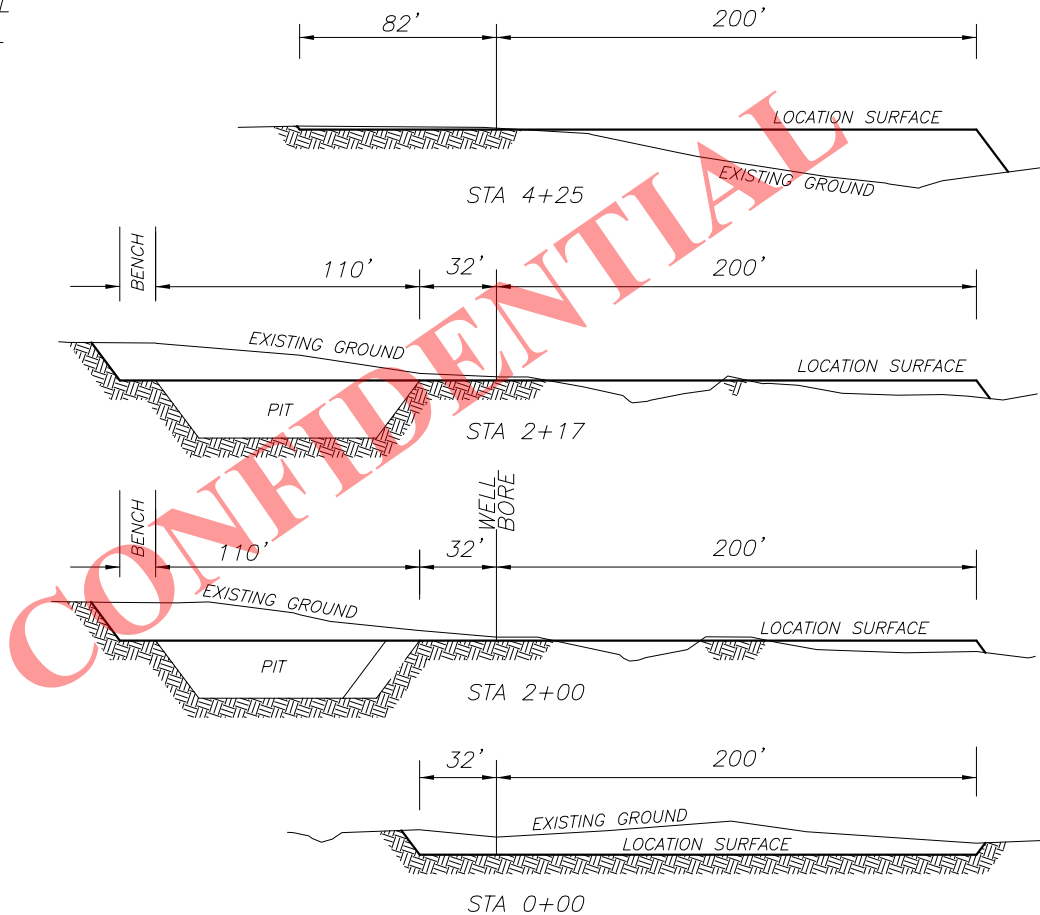
**JERRY D. ALLRED & ASSOCIATES**
SURVEYING CONSULTANTS1235 NORTH 700 EAST--P.O. BOX 975
DUCHESNE, UTAH 84021
(435) 738-5352**RECEIVED:** May 12, 2014

EP ENERGY E & P COMPANY, L.P.**FIGURE #2**

LOCATION LAYOUT FOR
PAULSEN 2-15C5
SECTION 15, T3S, R5W, U.S.B.&M.
906' FNL, 1814' FWL

1"=40'
X-SECTION
SCALE
1"=80'

NOTE: ALL CUT/FILL
SLOPES ARE 1½:1
UNLESS OTHERWISE
NOTED



APPROXIMATE YARDAGES

TOTAL CUT (INCLUDING PIT) = 16,166 CU. YDS.

PIT CUT = 4572 CU. YDS.

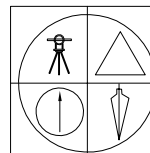
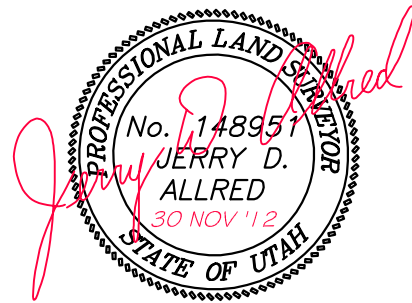
TOPSOIL STRIPPING: (6") = 2680 CU. YDS.

REMAINING LOCATION CUT = 8914 CU. YDS

TOTAL FILL = 8914 CU. YDS.

LOCATION SURFACE GRAVEL=1374 CU. YDS. (4" DEEP)

ACCESS ROAD GRAVEL=510 CU. YDS.



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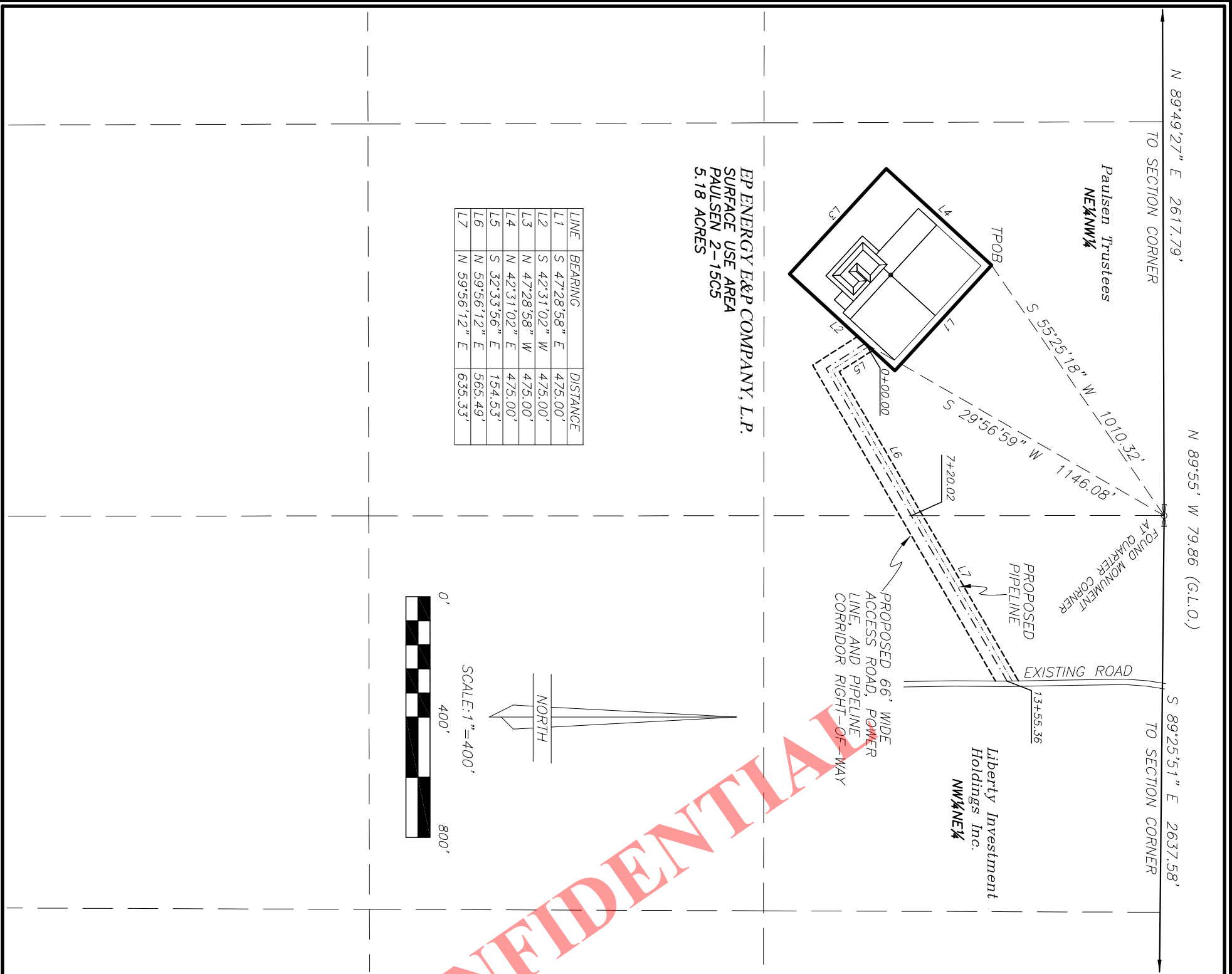
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CONFIDENTIAL



LOCATION USE AREA AND ACCESS ROAD, POWER LINE, AND PIPELINE
CORRIDOR RIGHT-OF-WAY SURVEY FOR
EP ENERGY E&P COMPANY, L.P.
PAULSEN 2-15C5
SECTION 15, T3S, R5W, U.S.B.&M.
DUCHESENE COUNTY, UTAH

USE AREA BOUNDARY DESCRIPTION

Commencing at the North Quarter Corner of Section 15, Township 3 South, Range 5 West of the Uintah Special Base and Meridian;
Thence South 55°25'18" West 1010.32 feet to the TRUE POINT OF BEGINNING;
Thence South 47°28'58" East 475.00 feet;
Thence South 42°31'02" West 475.00 feet;
Thence North 47°28'58" West 475.00 feet;
Thence North 42°31'02" East 475.00 feet to the TRUE POINT OF BEGINNING, containing 5.18 acres.

ACCESS ROAD, POWER LINE, AND PIPELINE CORRIDOR RIGHT-OF-WAY DESCRIPTION

A 66 feet wide access road, power line, and pipeline corridor right-of-way over portions of Section 15, Township 3 South, Range 5 West of the Uintah Special Base and Meridian, the centerline of said right-of-way being further described as follows:
Commencing at the North Quarter Corner of Section 15, Township 3 South, Range 5 West of the Uintah Special Base and Meridian;
Thence South 29°56'59" West 1146.08 feet to the TRUE POINT OF BEGINNING;
Thence South 32°33'56" East 154.53 feet;
Thence North 59°56'12" East 565.49 feet;
Thence North 59°56'12" East 635.33 feet to the West line of an existing road. Said right-of-way being 1355.36 feet in length with the side lines being shortened or elongated to intersect said use area boundary and existing road lines.

SURVEYOR'S CERTIFICATE

This is to certify that this plat was prepared from the field notes and electronic data collector files of an actual survey made by me, or under my personal supervision, of the use area and access road, power line, and pipeline corridor right-of-way shown hereon, and that the monuments indicated were found or set during said survey, and that this plat accurately represents said survey to the best of my knowledge.

JERRY D. ALLRED, REGISTERED LAND SURVEYOR,
CERTIFICATE NO. 148951 (UTAH)



THIS SURVEY WAS PERFORMED USING GLOBAL
POSITIONING SYSTEM PROCEDURES AND EQUIPMENT

THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM
G.P.S. OBSERVATIONS AT THE NW CORNER OF SECTION 10,
T3S, R5W, U.S.B.&M. LOCATED AT LAT 40°14'30.74528"N
AND LONG 110°26'45.07537"W USING THE UTAH STATE
VIRTUAL REFERENCE STATION CONTROL NETWORK MAINTAINED
AND OPERATED BY THE AUTOMATED GEOGRAPHIC REFERENCE
CENTER

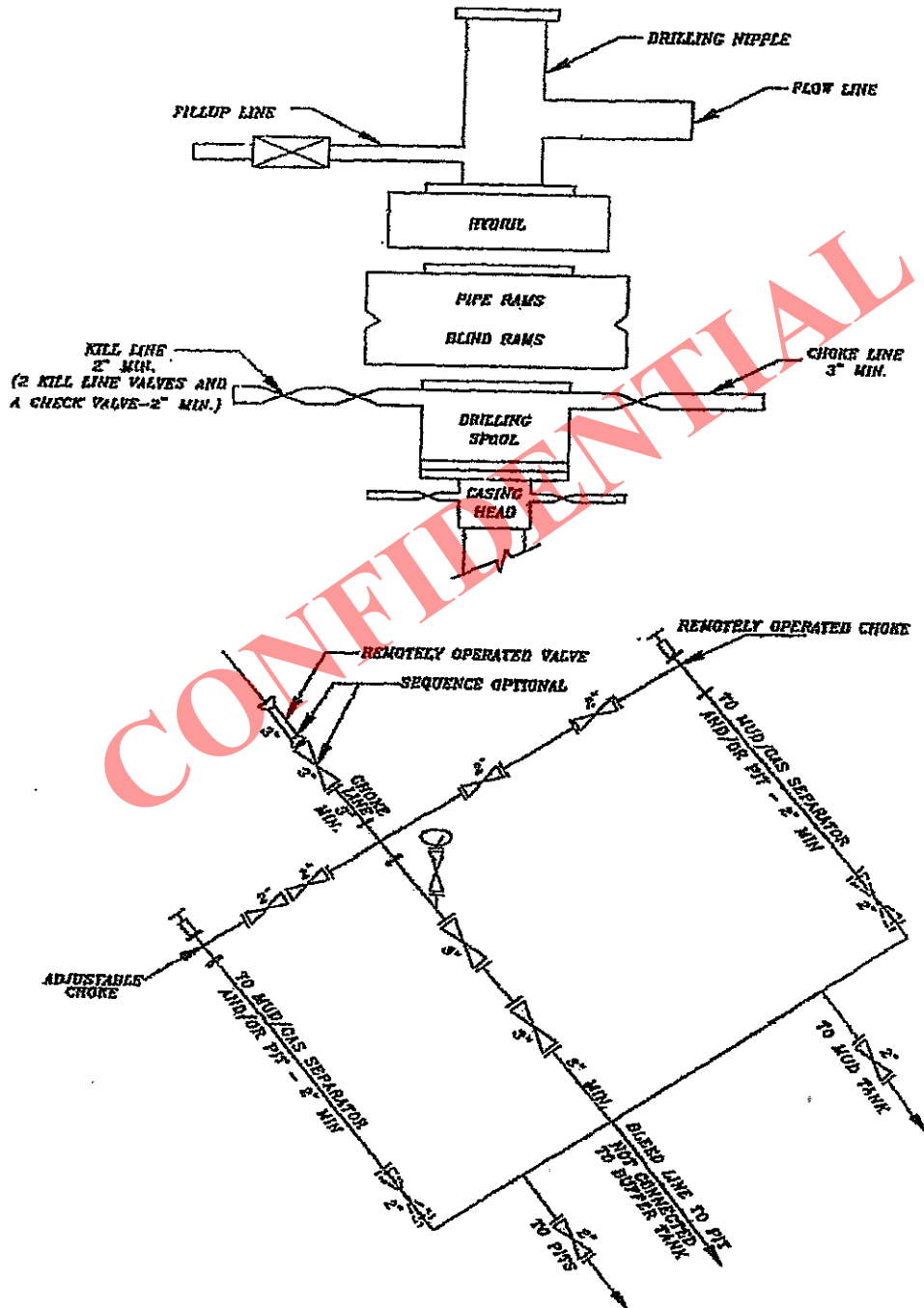
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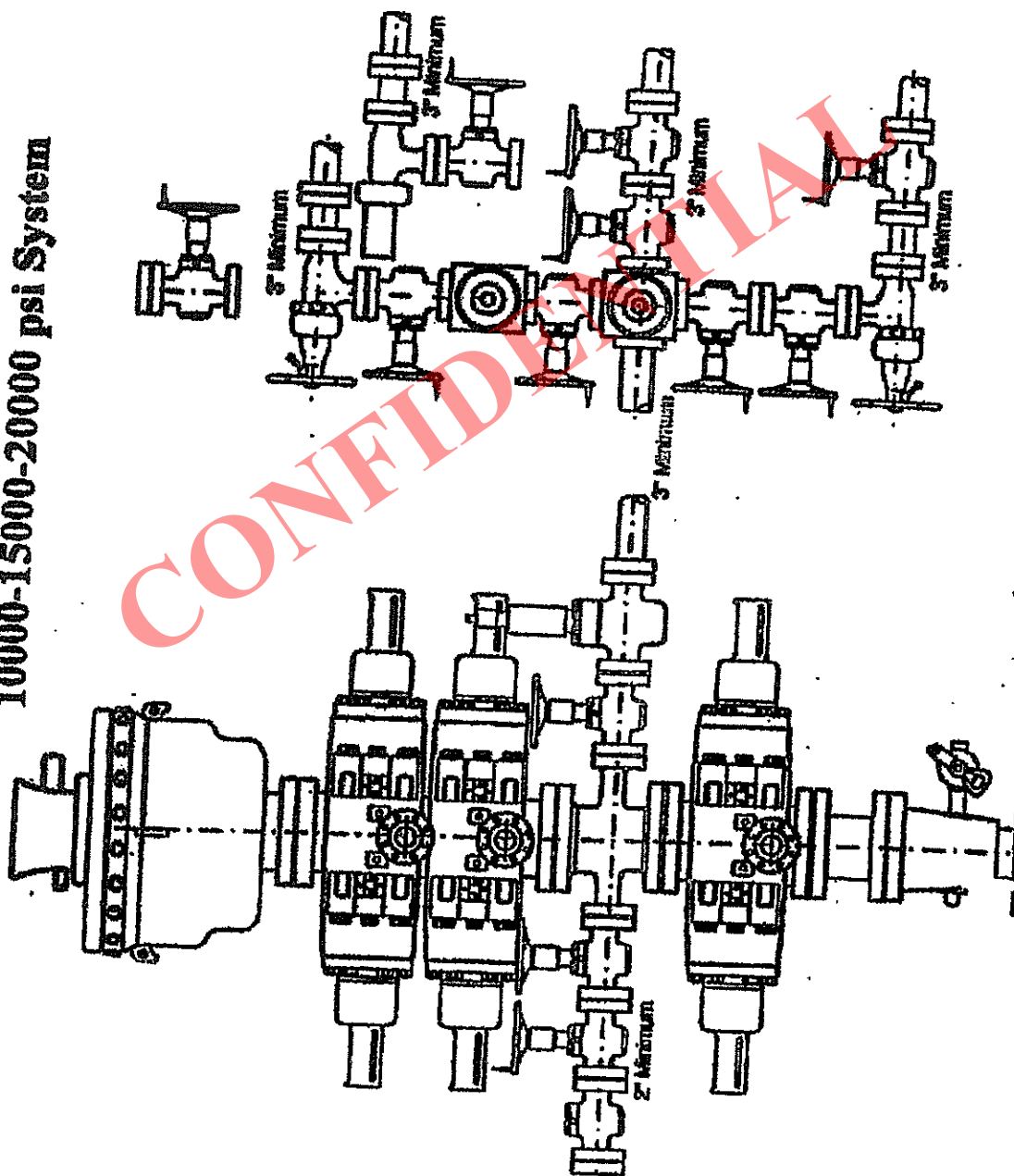
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5M BOP STACK and CHOKE MANIFOLD SYSTEM

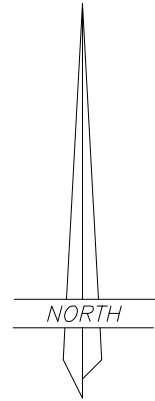
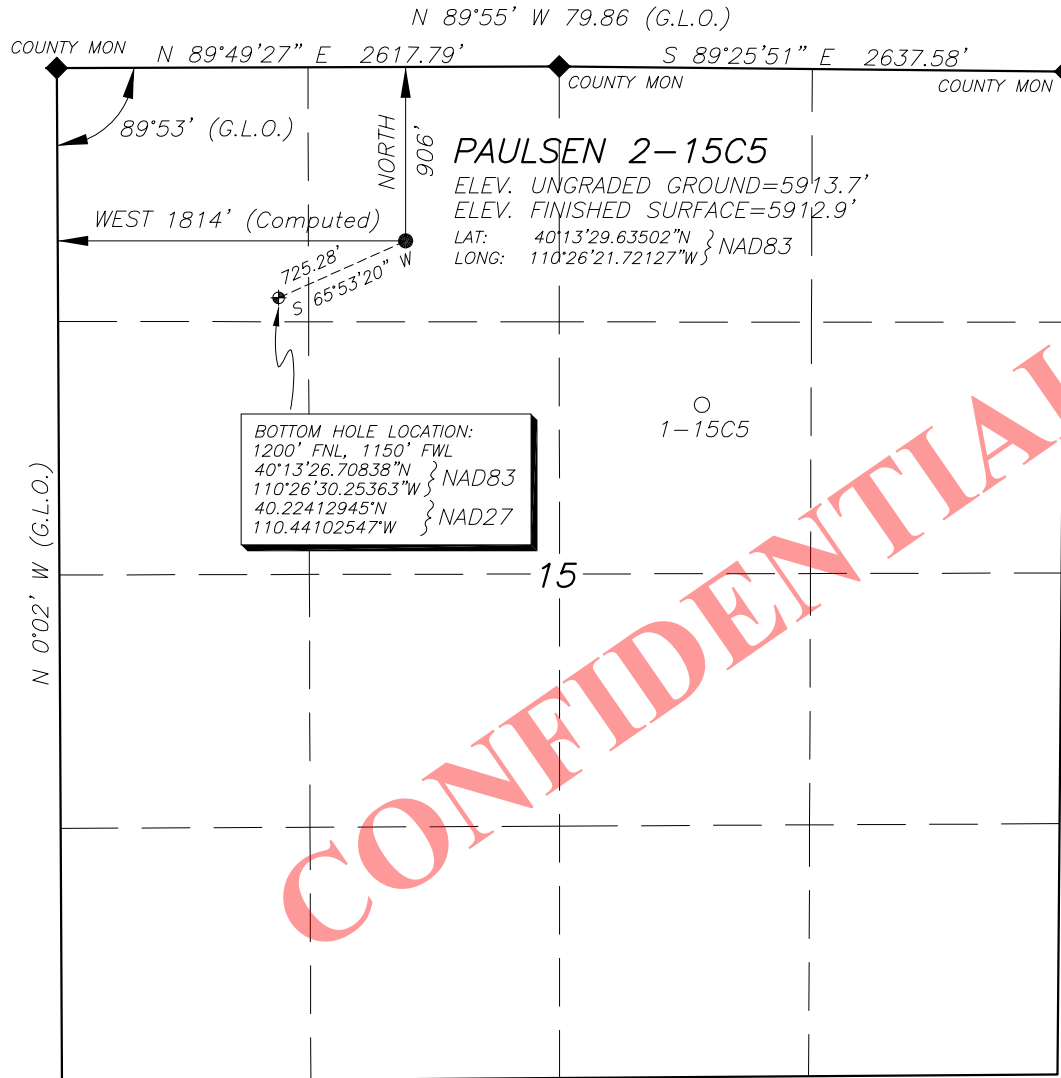


10000-15000-20000 psi System



EP ENERGY E & P COMPANY, L.P.**WELL LOCATION****PAULSEN 2-15C5**

LOCATED IN THE NE¼ OF THE NW¼ OF
SECTION 15, T3S, R5W, U.S.B.&M.
DUCHESNE COUNTY, UTAH



SCALE: 1" = 1000'



NOTE:
NAD27 VALUES FOR
WELL POSITION:
LAT: 40.22494241° N
LONG: 110.43865538° W

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM THE FIELD NOTES AND ELECTRONIC DATA COLLECTOR FILES OF AN ACTUAL SURVEY PERFORMED BY ME, OR UNDER MY PERSONAL SUPERVISION, DURING WHICH THE SHOWN MONUMENTS WERE FOUND OR REESTABLISHED.

LEGEND AND NOTES

◆ CORNER MONUMENTS FOUND AND USED BY THIS SURVEY

THE GENERAL LAND OFFICE (G.L.O.) PLAT WAS USED FOR REFERENCE AND CALCULATIONS AS WAS THE U.S.G.S. MAP

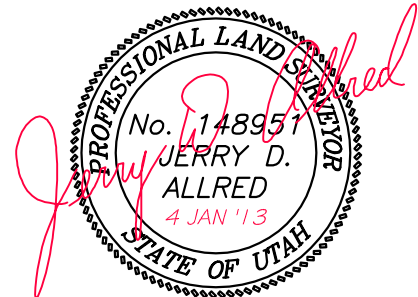
THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT

THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT THE NW CORNER OF SECTION 10, T3S, R5W, U.S.B.&M. LOCATED AT LAT 40°14'30.74528"N AND LONG 110°26'45.07537"W USING THE UTAH STATE VIRTUAL REFERENCE STATION CONTROL NETWORK MAINTAINED AND OPERATED BY THE AUTOMATED GEOGRAPHIC REFERENCE CENTER

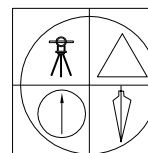
BASIS OF ELEVATIONS: NAVD 88 DATUM USING THE UTAH REFERENCE NETWORK CONTROL SYSTEM

REV 4 JAN 2013

30 NOV 2012 01-128-350



JERRY D. ALLRED, REGISTERED LAND SURVEYOR,
CERTIFICATE NO. 148951 (UTAH)

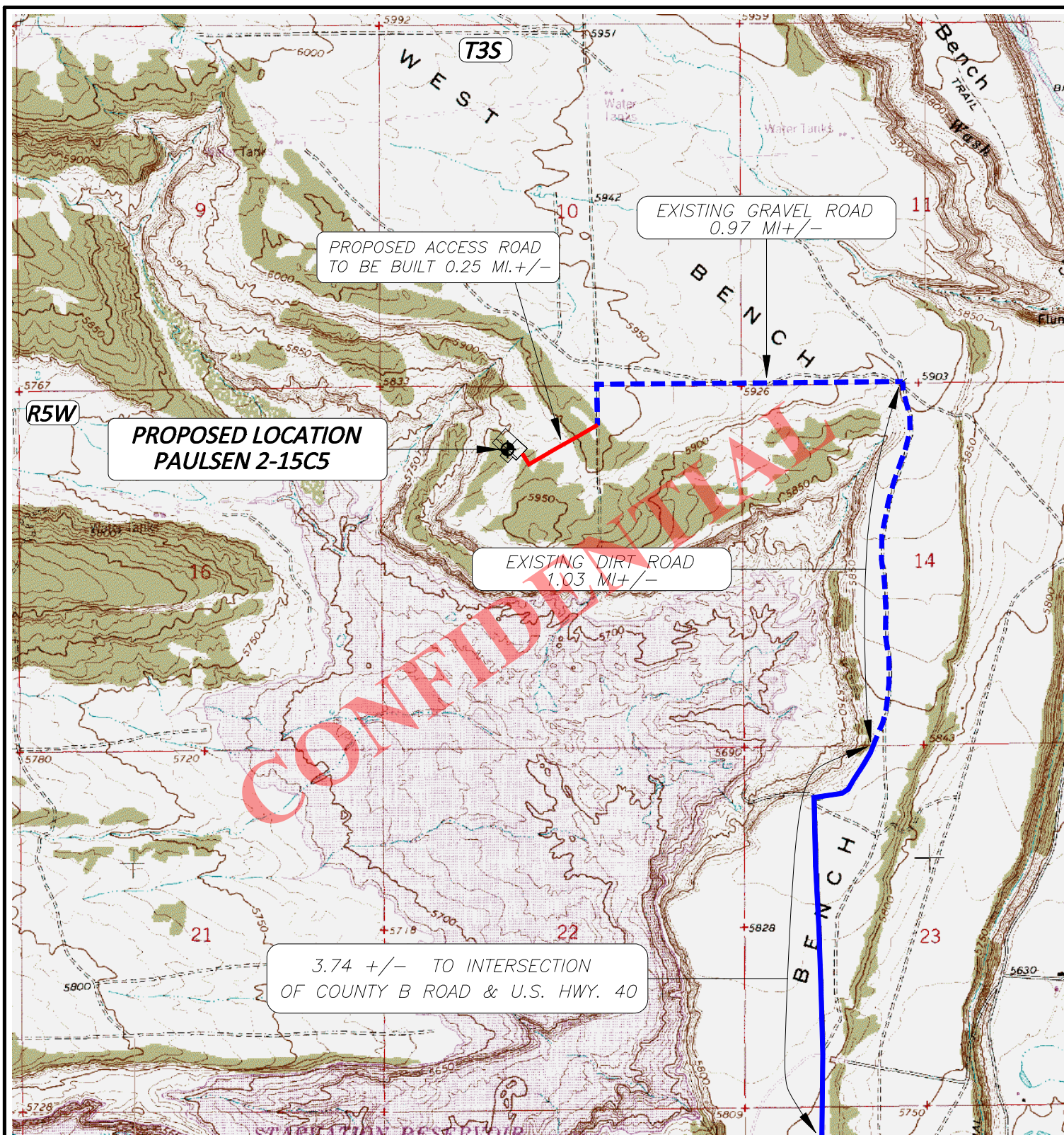






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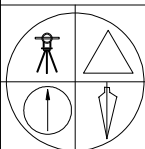
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**LEGEND:**

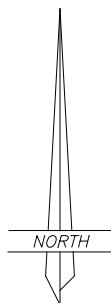
-  PROPOSED WELL LOCATION
-  PROPOSED ACCESS ROAD
-  EXISTING GRAVEL ROAD
-  EXISTING PAVED ROAD

01-128-350



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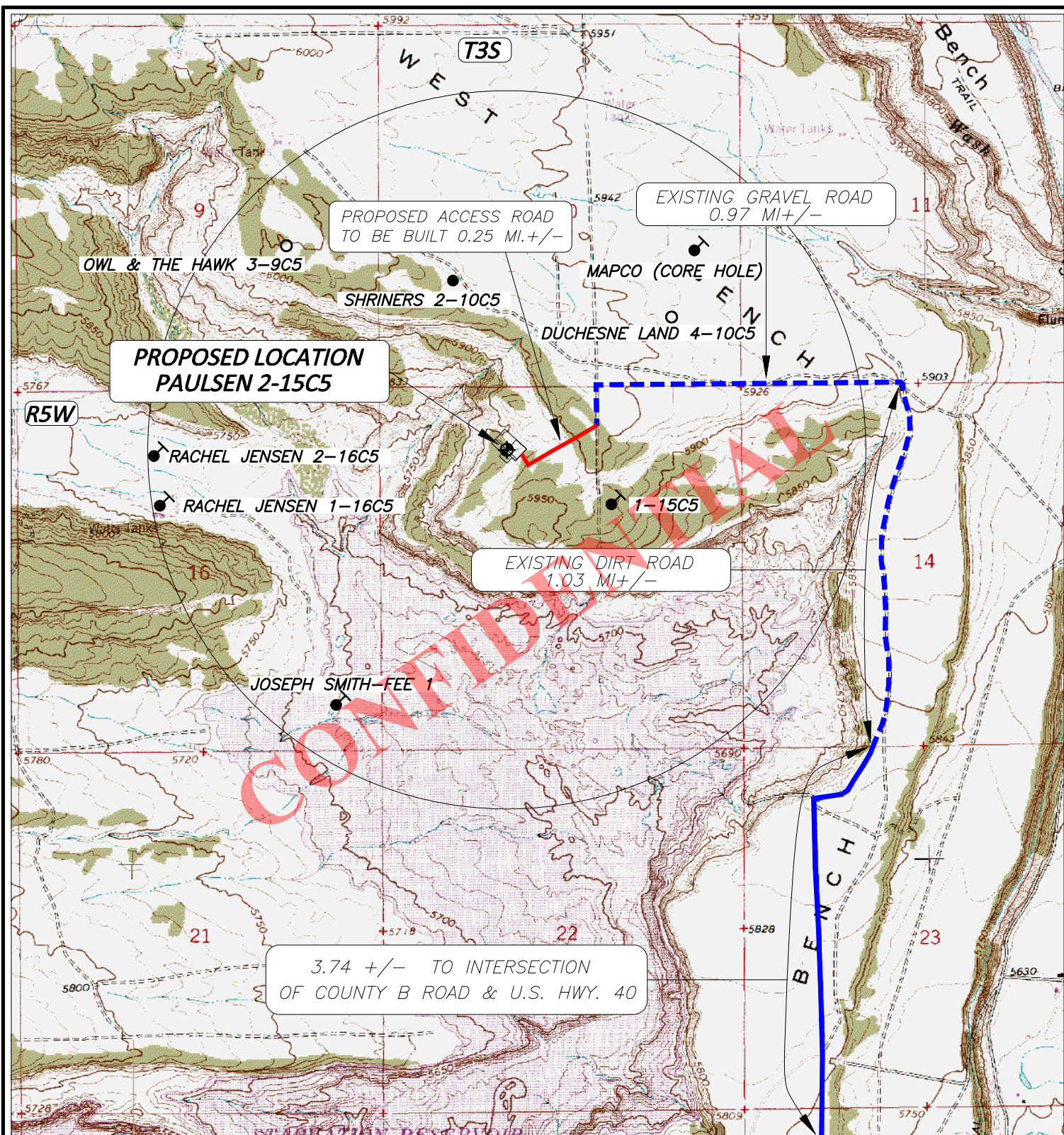
**EP ENERGY E & P COMPANY, L.P.**

PAULSEN 2-15C5
SECTION 15, T3S, R5W, U.S.B.&M.
906' FNL 1814' FWL

TOPOGRAPHIC MAP "B"

SCALE: 1"=2000'
30 NOV 2012

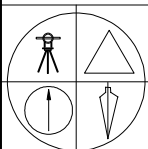
RECEIVED: February 05, 2014

**LEGEND:**

⊕ PROPOSED WELL LOCATION

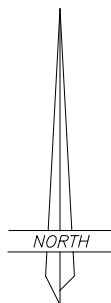
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01-128-350



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

1235 NORTH 700 EAST--P.O. BOX 975
DUCHESTER, UTAH 84021
(435) 738-5352



EP ENERGY E & P COMPANY, L.P.

PAULSEN 2-15C5
SECTION 15, T3S, R5W, U.S.B.&M.
906' FNL 1814' FWL

TOPOGRAPHIC MAP "C"

SCALE: 1"=2000'
30 NOV 2012

RECEIVED: February 05, 2014



EP ENERGY

DUCHESNE COUNTY, UT

PAULSEN 2-15C5

PAULSEN 2-15C5

PAULSEN 2-15C5

Plan: Design #1

PROPOSAL

04 February, 2014

CONFIDENTIAL



Weatherford®



Project: DUCHESNE COUNTY, UT
 Site: PAULSEN 2-15C5
 Well: PAULSEN 2-15C5
 Wellbore: PAULSEN 2-15C5
 Design: Design #1
 Latitude: 40° 13' 29.635 N
 Longitude: 110° 26' 21.721 W
 GL: 5913.00
 KB: WELL @ 5930.00ft (PRECISION 404)



DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
VP PAULSEN 2-15C5	8900.00	-296.13	-661.79	40° 13' 29.635 N	110° 26' 30.254 W
PBHL PAULSEN 2-15C5	12300.00	-296.13	-661.79	40° 13' 26.708 N	110° 26' 30.254 W

WELL DETAILS: PAULSEN 2-15C5

+N/-S	+E/-W	Northing	Ground Level: Easting	5913.00 Latitude	Longitude	Slot
0.00	0.00	7252401.29	1936559.58	40° 13' 29.635 N	110° 26' 21.721 W	

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSECT	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	0.00	Start Build 1.50
2106.11	6.09	245.89	2105.35	-8.81	-19.69	1.50	245.89	21.57	Start 6425.58 hold at 2106.11 MD
8531.70	6.09	245.89	8494.65	-287.32	-642.10	0.00	0.00	703.45	Start Drop -1.50
8937.81	0.00	0.00	8900.00	-296.13	-661.79	1.50	180.00	725.02	Start 3400.00 hold at 8937.81 MD
12337.81	0.00	0.00	12300.00	-296.13	-661.79	0.00	0.00	725.02	TD at 12337.81

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well PAULSEN 2-15C5, True North
 Vertical (TVD) Reference: WELL @ 5930.00ft (PRECISION 404)
 Section (VS) Reference: Slot - (0.00N, 0.00E)
 Measured Depth Reference: WELL @ 5930.00ft (PRECISION 404)
 Calculation Method: Minimum Curvature

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4011.20	3941.13	Green River (GRRV)
4961.20	4896.52	Green River (GRTN1)
5841.20	5781.52	Mahogany Bench
7131.20	7078.84	Lower Green River (TGR3)
8911.20	8867.81	Wasatch (W090TU2)

Azimuths to True North
 Magnetic North: 11.25°

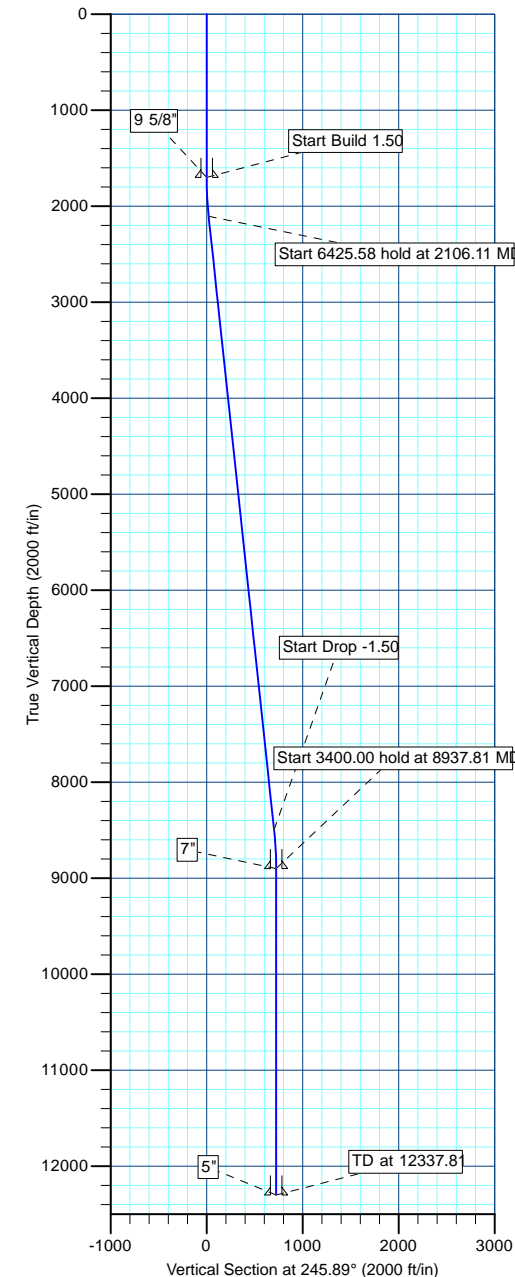
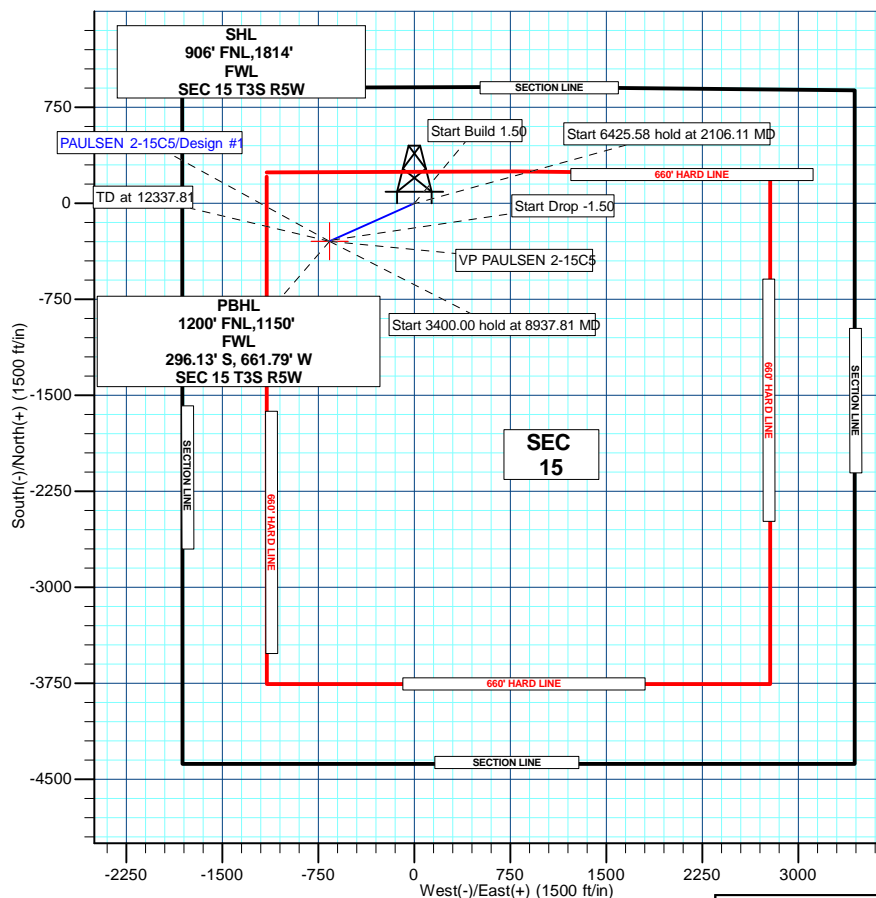
Magnetic Field
 Strength: 51956.2snT
 Dip Angle: 65.79°
 Date: 2/4/2014
 Model: BGGM2013

PROJECT DETAILS: DUCHESNE COUNTY, UT

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: Utah Central Zone
 System Datum: Mean Sea Level

CASING DETAILS

TVD	MD	Name	Size
1700.00	1700.00	9 5/8"	9-5/8
8900.00	8937.81	7"	7
12300.00	12337.81	5"	5



Plan: Design #1 (PAULSEN 2-15C5/PAULSEN 2-15C5)

Created By: THOMAS JANOUSEK Date: 12:04, February 04 2014



EP ENERGY

DUCHESNE COUNTY, UT

PAULSEN 2-15C5

PAULSEN 2-15C5

PAULSEN 2-15C5

Plan: Design #1

Standard Planning Report

04 February, 2014

CONFIDENTIAL



Weatherford®

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well PAULSEN 2-15C5
Company:	EP ENERGY	TVD Reference:	WELL @ 5930.00ft (PRECISION 404)
Project:	DUCHESNE COUNTY, UT	MD Reference:	WELL @ 5930.00ft (PRECISION 404)
Site:	PAULSEN 2-15C5	North Reference:	True
Well:	PAULSEN 2-15C5	Survey Calculation Method:	Minimum Curvature
Wellbore:	PAULSEN 2-15C5		
Design:	Design #1		

Project	DUCHESNE COUNTY, UT		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		

Site		PAULSEN 2-15C5			
Site Position:		Northing:	7,252,401.29 usft	Latitude:	40° 13' 29.635 N
From:	Lat/Long	Easting:	1,936,559.58 usft	Longitude:	110° 26' 21.721 W
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16"	Grid Convergence:	0.68 °

Well	PAULSEN 2-15C5					
Well Position	+N/-S	0.00 ft	Northing:	7,252,401.29 usft	Latitude:	40° 13' 29.635 N
	+E/-W	0.00 ft	Easting:	1,936,559.58 usft	Longitude:	110° 26' 21.721 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,913.00 ft

Wellbore	PAULSEN 2-15C5				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2013	2/4/2014	11.25	65.79	51,956

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	245.89

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,106.11	6.09	245.89	2,105.35	-8.81	-19.69	1.50	1.50	0.00	245.89	
8,531.70	6.09	245.89	8,494.65	-287.32	-642.10	0.00	0.00	0.00	0.00	
8,937.81	0.00	0.00	8,900.00	-296.13	-661.79	1.50	-1.50	0.00	180.00	VP PAULSEN 2-15C5
12,337.81	0.00	0.00	12,300.00	-296.13	-661.79	0.00	0.00	0.00	0.00	PBHL PAULSEN 2-15

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well PAULSEN 2-15C5
Company:	EP ENERGY	TVD Reference:	WELL @ 5930.00ft (PRECISION 404)
Project:	DUCHESNE COUNTY, UT	MD Reference:	WELL @ 5930.00ft (PRECISION 404)
Site:	PAULSEN 2-15C5	North Reference:	True
Well:	PAULSEN 2-15C5	Survey Calculation Method:	Minimum Curvature
Wellbore:	PAULSEN 2-15C5		
Design:	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 1.50 - 9 5/8"									
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	1.50	245.89	1,799.99	-0.53	-1.19	1.31	1.50	1.50	0.00
1,900.00	3.00	245.89	1,899.91	-2.14	-4.78	5.23	1.50	1.50	0.00
2,000.00	4.50	245.89	1,999.69	-4.81	-10.75	11.77	1.50	1.50	0.00
Start 6425.58 hold at 2106.11 MD									
2,106.11	6.09	245.89	2,105.35	-8.81	-19.69	21.57	1.50	1.50	0.00
2,200.00	6.09	245.89	2,198.71	-12.88	-28.78	31.53	0.00	0.00	0.00
2,300.00	6.09	245.89	2,298.14	-17.21	-38.47	42.14	0.00	0.00	0.00
2,400.00	6.09	245.89	2,397.58	-21.55	-48.15	52.76	0.00	0.00	0.00
2,500.00	6.09	245.89	2,497.01	-25.88	-57.84	63.37	0.00	0.00	0.00
2,600.00	6.09	245.89	2,596.45	-30.22	-67.53	73.98	0.00	0.00	0.00
2,700.00	6.09	245.89	2,695.88	-34.55	-77.21	84.59	0.00	0.00	0.00
2,800.00	6.09	245.89	2,795.32	-38.89	-86.90	95.20	0.00	0.00	0.00
2,900.00	6.09	245.89	2,894.75	-43.22	-96.59	105.82	0.00	0.00	0.00
3,000.00	6.09	245.89	2,994.19	-47.55	-106.27	116.43	0.00	0.00	0.00
3,100.00	6.09	245.89	3,093.62	-51.89	-115.96	127.04	0.00	0.00	0.00
3,200.00	6.09	245.89	3,193.06	-56.22	-125.65	137.65	0.00	0.00	0.00
3,300.00	6.09	245.89	3,292.49	-60.56	-135.33	148.26	0.00	0.00	0.00
3,400.00	6.09	245.89	3,391.93	-64.89	-145.02	158.88	0.00	0.00	0.00
3,500.00	6.09	245.89	3,491.36	-69.23	-154.71	169.49	0.00	0.00	0.00
3,600.00	6.09	245.89	3,590.80	-73.56	-164.39	180.10	0.00	0.00	0.00
3,700.00	6.09	245.89	3,690.24	-77.89	-174.08	190.71	0.00	0.00	0.00
3,800.00	6.09	245.89	3,789.67	-82.23	-183.77	201.32	0.00	0.00	0.00
3,900.00	6.09	245.89	3,889.11	-86.56	-193.45	211.94	0.00	0.00	0.00
Green River (GRRV)									
3,941.13	6.09	245.89	3,930.00	-88.35	-197.44	216.30	0.00	0.00	0.00
4,000.00	6.09	245.89	3,988.54	-90.90	-203.14	222.55	0.00	0.00	0.00
4,100.00	6.09	245.89	4,087.98	-95.23	-212.83	233.16	0.00	0.00	0.00
4,200.00	6.09	245.89	4,187.41	-99.57	-222.51	243.77	0.00	0.00	0.00
4,300.00	6.09	245.89	4,286.85	-103.90	-232.20	254.38	0.00	0.00	0.00
4,400.00	6.09	245.89	4,386.28	-108.24	-241.88	265.00	0.00	0.00	0.00
4,500.00	6.09	245.89	4,485.72	-112.57	-251.57	275.61	0.00	0.00	0.00
4,600.00	6.09	245.89	4,585.15	-116.90	-261.26	286.22	0.00	0.00	0.00
4,700.00	6.09	245.89	4,684.59	-121.24	-270.94	296.83	0.00	0.00	0.00
4,800.00	6.09	245.89	4,784.02	-125.57	-280.63	307.44	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well PAULSEN 2-15C5
Company:	EP ENERGY	TVD Reference:	WELL @ 5930.00ft (PRECISION 404)
Project:	DUCHESNE COUNTY, UT	MD Reference:	WELL @ 5930.00ft (PRECISION 404)
Site:	PAULSEN 2-15C5	North Reference:	True
Well:	PAULSEN 2-15C5	Survey Calculation Method:	Minimum Curvature
Wellbore:	PAULSEN 2-15C5		
Design:	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Green River (GRTN1)									
4,896.52	6.09	245.89	4,880.00	-129.76	-289.98	317.69	0.00	0.00	0.00
4,900.00	6.09	245.89	4,883.46	-129.91	-290.32	318.06	0.00	0.00	0.00
5,000.00	6.09	245.89	4,982.89	-134.24	-300.00	328.67	0.00	0.00	0.00
5,100.00	6.09	245.89	5,082.33	-138.58	-309.69	339.28	0.00	0.00	0.00
5,200.00	6.09	245.89	5,181.77	-142.91	-319.38	349.89	0.00	0.00	0.00
5,300.00	6.09	245.89	5,281.20	-147.24	-329.06	360.50	0.00	0.00	0.00
5,400.00	6.09	245.89	5,380.64	-151.58	-338.75	371.12	0.00	0.00	0.00
5,500.00	6.09	245.89	5,480.07	-155.91	-348.44	381.73	0.00	0.00	0.00
5,600.00	6.09	245.89	5,579.51	-160.25	-358.12	392.34	0.00	0.00	0.00
5,700.00	6.09	245.89	5,678.94	-164.58	-367.81	402.95	0.00	0.00	0.00
Mahogany Bench									
5,781.52	6.09	245.89	5,760.00	-168.12	-375.71	411.60	0.00	0.00	0.00
5,800.00	6.09	245.89	5,778.38	-168.92	-377.50	413.56	0.00	0.00	0.00
5,900.00	6.09	245.89	5,877.81	-173.25	-387.18	424.18	0.00	0.00	0.00
6,000.00	6.09	245.89	5,977.25	-177.59	-396.87	434.79	0.00	0.00	0.00
6,100.00	6.09	245.89	6,076.68	-181.92	-406.55	445.40	0.00	0.00	0.00
6,200.00	6.09	245.89	6,176.12	-186.25	-416.24	456.01	0.00	0.00	0.00
6,300.00	6.09	245.89	6,275.55	-190.59	-425.93	466.62	0.00	0.00	0.00
6,400.00	6.09	245.89	6,374.99	-194.92	-435.61	477.24	0.00	0.00	0.00
6,500.00	6.09	245.89	6,474.42	-199.26	-445.30	487.85	0.00	0.00	0.00
6,600.00	6.09	245.89	6,573.86	-203.59	-454.99	498.46	0.00	0.00	0.00
6,700.00	6.09	245.89	6,673.30	-207.93	-464.67	509.07	0.00	0.00	0.00
6,800.00	6.09	245.89	6,772.73	-212.26	-474.36	519.68	0.00	0.00	0.00
6,900.00	6.09	245.89	6,872.17	-216.59	-484.05	530.30	0.00	0.00	0.00
7,000.00	6.09	245.89	6,971.60	-220.93	-493.73	540.91	0.00	0.00	0.00
Lower Green River (TGR3)									
7,078.84	6.09	245.89	7,050.00	-224.35	-501.37	549.28	0.00	0.00	0.00
7,100.00	6.09	245.89	7,071.04	-225.26	-503.42	551.52	0.00	0.00	0.00
7,200.00	6.09	245.89	7,170.47	-229.60	-513.11	562.13	0.00	0.00	0.00
7,300.00	6.09	245.89	7,269.91	-233.93	-522.79	572.74	0.00	0.00	0.00
7,400.00	6.09	245.89	7,369.34	-238.27	-532.48	583.36	0.00	0.00	0.00
7,500.00	6.09	245.89	7,468.78	-242.60	-542.17	593.97	0.00	0.00	0.00
7,600.00	6.09	245.89	7,568.21	-246.94	-551.85	604.58	0.00	0.00	0.00
7,700.00	6.09	245.89	7,667.65	-251.27	-561.54	615.19	0.00	0.00	0.00
7,800.00	6.09	245.89	7,767.08	-255.60	-571.22	625.80	0.00	0.00	0.00
7,900.00	6.09	245.89	7,866.52	-259.94	-580.91	636.42	0.00	0.00	0.00
8,000.00	6.09	245.89	7,965.95	-264.27	-590.60	647.03	0.00	0.00	0.00
8,100.00	6.09	245.89	8,065.39	-268.61	-600.28	657.64	0.00	0.00	0.00
8,200.00	6.09	245.89	8,164.83	-272.94	-609.97	668.25	0.00	0.00	0.00
8,300.00	6.09	245.89	8,264.26	-277.28	-619.66	678.86	0.00	0.00	0.00
8,400.00	6.09	245.89	8,363.70	-281.61	-629.34	689.48	0.00	0.00	0.00
8,500.00	6.09	245.89	8,463.13	-285.95	-639.03	700.09	0.00	0.00	0.00
Start Drop -1.50									
8,531.70	6.09	245.89	8,494.65	-287.32	-642.10	703.45	0.00	0.00	0.00
8,600.00	5.07	245.89	8,562.63	-290.03	-648.16	710.09	1.50	-1.50	0.00
8,700.00	3.57	245.89	8,662.34	-293.11	-655.03	717.62	1.50	-1.50	0.00
8,800.00	2.07	245.89	8,762.22	-295.11	-659.52	722.54	1.50	-1.50	0.00
Wasatch (W090TU2)									
8,867.81	1.05	245.89	8,830.00	-295.87	-661.20	724.38	1.50	-1.50	0.00
8,900.00	0.57	245.89	8,862.19	-296.05	-661.62	724.83	1.50	-1.50	0.00
Start 3400.00 hold at 8937.81 MD - 7"									
8,937.81	0.00	0.00	8,900.00	-296.13	-661.79	725.02	1.50	-1.50	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well PAULSEN 2-15C5
Company:	EP ENERGY	TVD Reference:	WELL @ 5930.00ft (PRECISION 404)
Project:	DUCHESNE COUNTY, UT	MD Reference:	WELL @ 5930.00ft (PRECISION 404)
Site:	PAULSEN 2-15C5	North Reference:	True
Well:	PAULSEN 2-15C5	Survey Calculation Method:	Minimum Curvature
Wellbore:	PAULSEN 2-15C5		
Design:	Design #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
9,000.00	0.00	0.00	8,962.19	-296.13	-661.79	725.02	0.00	0.00	0.00	
9,100.00	0.00	0.00	9,062.19	-296.13	-661.79	725.02	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,162.19	-296.13	-661.79	725.02	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,262.19	-296.13	-661.79	725.02	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,362.19	-296.13	-661.79	725.02	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,462.19	-296.13	-661.79	725.02	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,562.19	-296.13	-661.79	725.02	0.00	0.00	0.00	
9,700.00	0.00	0.00	9,662.19	-296.13	-661.79	725.02	0.00	0.00	0.00	
9,800.00	0.00	0.00	9,762.19	-296.13	-661.79	725.02	0.00	0.00	0.00	
9,900.00	0.00	0.00	9,862.19	-296.13	-661.79	725.02	0.00	0.00	0.00	
10,000.00	0.00	0.00	9,962.19	-296.13	-661.79	725.02	0.00	0.00	0.00	
10,100.00	0.00	0.00	10,062.19	-296.13	-661.79	725.02	0.00	0.00	0.00	
10,200.00	0.00	0.00	10,162.19	-296.13	-661.79	725.02	0.00	0.00	0.00	
10,300.00	0.00	0.00	10,262.19	-296.13	-661.79	725.02	0.00	0.00	0.00	
10,400.00	0.00	0.00	10,362.19	-296.13	-661.79	725.02	0.00	0.00	0.00	
10,500.00	0.00	0.00	10,462.19	-296.13	-661.79	725.02	0.00	0.00	0.00	
10,600.00	0.00	0.00	10,562.19	-296.13	-661.79	725.02	0.00	0.00	0.00	
10,700.00	0.00	0.00	10,662.19	-296.13	-661.79	725.02	0.00	0.00	0.00	
10,800.00	0.00	0.00	10,762.19	-296.13	-661.79	725.02	0.00	0.00	0.00	
10,900.00	0.00	0.00	10,862.19	-296.13	-661.79	725.02	0.00	0.00	0.00	
11,000.00	0.00	0.00	10,962.19	-296.13	-661.79	725.02	0.00	0.00	0.00	
11,100.00	0.00	0.00	11,062.19	-296.13	-661.79	725.02	0.00	0.00	0.00	
11,200.00	0.00	0.00	11,162.19	-296.13	-661.79	725.02	0.00	0.00	0.00	
11,300.00	0.00	0.00	11,262.19	-296.13	-661.79	725.02	0.00	0.00	0.00	
11,400.00	0.00	0.00	11,362.19	-296.13	-661.79	725.02	0.00	0.00	0.00	
11,500.00	0.00	0.00	11,462.19	-296.13	-661.79	725.02	0.00	0.00	0.00	
11,600.00	0.00	0.00	11,562.19	-296.13	-661.79	725.02	0.00	0.00	0.00	
11,700.00	0.00	0.00	11,662.19	-296.13	-661.79	725.02	0.00	0.00	0.00	
11,800.00	0.00	0.00	11,762.19	-296.13	-661.79	725.02	0.00	0.00	0.00	
11,900.00	0.00	0.00	11,862.19	-296.13	-661.79	725.02	0.00	0.00	0.00	
12,000.00	0.00	0.00	11,962.19	-296.13	-661.79	725.02	0.00	0.00	0.00	
12,100.00	0.00	0.00	12,062.19	-296.13	-661.79	725.02	0.00	0.00	0.00	
12,200.00	0.00	0.00	12,162.19	-296.13	-661.79	725.02	0.00	0.00	0.00	
12,300.00	0.00	0.00	12,262.19	-296.13	-661.79	725.02	0.00	0.00	0.00	
TD at 12337.81										
12,337.81	0.00	0.00	12,300.00	-296.13	-661.79	725.02	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude		Longitude
- hit/miss target										
- Shape										
VP PAULSEN 2-15C5	0.00	0.00	8,900.00	-296.13	-661.79	7,252,097.34	1,935,901.36	40° 13' 26.708 N		110° 26' 30.254 W
- plan hits target center										
- Point										
PBHL PAULSEN 2-15C5	0.00	0.00	12,300.00	-296.13	-661.79	7,252,097.34	1,935,901.36	40° 13' 26.708 N		110° 26' 30.254 W
- plan hits target center										
- Point										

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well PAULSEN 2-15C5
Company:	EP ENERGY	TVD Reference:	WELL @ 5930.00ft (PRECISION 404)
Project:	DUCHESNE COUNTY, UT	MD Reference:	WELL @ 5930.00ft (PRECISION 404)
Site:	PAULSEN 2-15C5	North Reference:	True
Well:	PAULSEN 2-15C5	Survey Calculation Method:	Minimum Curvature
Wellbore:	PAULSEN 2-15C5		
Design:	Design #1		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
12,337.81	12,300.00	5"	5	6-1/8	
8,937.81	8,900.00	7"	7	8-3/4	
1,700.00	1,700.00	9 5/8"	9-5/8	12-1/4	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,941.13	3,930.00	Green River (GRRV)		0.00	
4,896.52	4,880.00	Green River (GRTN1)		0.00	
5,781.52	5,760.00	Mahogany Bench		0.00	
7,078.84	7,050.00	Lower Green River (TGR3)		0.00	
8,867.81	8,830.00	Wasatch (W090TU2)		0.00	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,700.00	1,700.00	0.00	0.00	Start Build 1.50	
2,106.11	2,105.35	-8.81	-19.69	Start 6425.58 hold at 2106.11 MD	
8,531.70	8,494.65	-287.32	-642.10	Start Drop -1.50	
8,937.81	8,900.00	-296.13	-661.79	Start 3400.00 hold at 8937.81 MD	
12,337.81	12,300.00	-296.13	-661.79	TD at 12337.81	

AFFIDAVIT OF DAMAGE SETTLEMENT AND RELEASE

Jacquelyn L. Lynch personally appeared before me, and, being duly sworn, deposes and says:

1. My name is Jacquelyn L. Lynch. I am a Landman for EP Energy E&P Company, L.P., whose address is 1001 Louisiana St., Houston, Texas 77002 ("EP Energy").
2. EP Energy is the operator of the proposed Paulsen 2-15C5 well (the "Well") to be located in the NE/4NW/4 of Section 15, Township 3 South, Range 5 West, USM, Duchesne County, Utah (the "Drillsite Location"). The surface owner of the Drillsite Location is Paulsen Family Trust Dated 1/27/03, whose address is 8494 South 700 East, Suite 150, Sandy, Utah 84070 (the "Surface Owner"). The Surface Owner's telephone number is (801) 619-9200.
3. EP Energy and the Surface Owner have entered into a Damage Settlement and Release Agreement dated January 11, 2014, to cover any and all injuries or damages of every character and description sustained by the Surface Owner or Surface Owner's property as a result of operations associated with the drilling of the Well.

FURTHER AFFIANT SAYETH NOT.


Jacquelyn L. Lynch

ACKNOWLEDGMENT

STATE OF TEXAS

§

§

COUNTY OF HARRIS

§

Sworn to and subscribed before me on this 21th day of January, 2014, by Jacquelyn L. Lynch, as Landman for EP Energy E&P Company, L.P., a Delaware limited partnership.


NOTARY PUBLIC

My Commission Expires:



EP Energy E&P Company, L.P.

Related Surface Information

1. **Current Surface Use:**

- Livestock Grazing and Oil and Gas Production.

2. **Proposed Surface Disturbance:**

- The road will be crown and ditch. Water wings will be constructed on the access road as needed.
- The topsoil will be windrowed and re-spread in the borrow area.
- New road to be constructed will be approximately .25 miles in length and 66 feet wide.
- All equipment and vehicles will be confined to the access road, pad and area specified in the APD.

3. **Location Of Existing Wells:**

- Existing oil, gas wells within one (1) mile radius of proposed well are provided in EXHIBIT C.

4. **Location And Type Of Drilling Water Supply:**

- Drilling water: Duchesne City Water

5. **Existing/Proposed Facilities For Productive Well:**

- There are no existing facilities that will be utilized for this well.
- A pipeline corridor .25 miles will parallel the proposed access road. The corridor will contain one 4 inch gas line and one 2 inch gas line and one 2 inch Salt Water disposal line. Rehabilitation of unneeded, previously disturbed areas will consist of backfilling and contouring the reserve pit area; backsloping and contouring all cut and fill slopes. These areas will be reseeded. Refer to plans for reclamation of surface for details.
- Upgrade and maintain access roads and drainage control structures (e.g., culverts, drainage dips, ditching, etc.) as necessary to prevent soil erosion and accommodate safe, year-round traffic.

6. **Construction Materials:**

- Native soil from road and location will be used for construction materials along with gravel and/or scoria road base material. In the event that conditions should necessitate graveling of all or part of the access road and location, surfacing materials will be purchased from commercial suppliers in the marketing area.

7. **Methods For Handling Waste Disposal:**

- The reserve pit will be designed to prevent the collection of surface runoff and will be constructed with a minimum of ½ the total depth below the original ground surface on the lowest point with the pit. The pit will be lined with a 20-mil polyethylene to prevent leakage of fluids. The liner will be rolled into place and secured at the ends, i.e. buried on top of the pit berms. Prior to use, the reserve pit will be fenced on three sides; the fourth side will be fenced at the time the rig is removed. Drilling fluids, cuttings and produced water will be contained in the reserve pit (trash will be placed in the trash cage). Fluids in the reserve pit will be allowed to evaporate prior to pit burial.
- Garbage and other trash will be contained in the portable trash cage and hauled off the location to an authorized disposal site. Any trash on the pad will be cleaned up prior to the rig moving off location and hauled to an authorized disposal site.
- Sewage will be handled in Portable Toilets.
- Produced water will be placed in the reserve pit for a period not to exceed ninety days after initial production. Any hydrocarbons produced during completion work will be contained in test tanks and removed from the location at a later date.
- Water from the reserve pit may be used for drilling of additional wells. The water will be trucked along access roads as approved in pertinent APD's

8. **Ancillary Facilities:**

- There will be no ancillary facilities associated with this project.

9. **Surface Reclamation Plans:**

Backfilling of the pits will be done when dry. In the event of a dry hole, the location will be re-contoured, the topsoil will be distributed evenly over the entire location, and the seedbed prepared.

- Seed will be planted after September 15th, and prior to ground frost, or seed will be planted after the frost has left and before May 15th. Slopes to steep for machinery will be hand broadcast and raked with twice the specified amount of seed.
 1. The construction program and design are on the attached cut, fill and cross sectional diagrams.
 2. Prior to construction, all topsoil will be removed from the entire site and stockpiled. Topsoil for this site is the first 6 inches of soil materials.
 3. After the location has been reshaped and after redistributing the topsoil, the operator will rip and scarify the drilling platform and access road on the contour, to a depth of at least 12 inches.
- Rehabilitation will begin upon the completion of the drilling. Complete rehabilitation will depend on weather conditions and the amount of time required to dry the reserve pit.
 1. All rehabilitation work including seeding will be completed as soon as weather and the reserve pit conditions are appropriate.
 2. Landowner will be contacted for rehabilitation requirements.

10. **Surface Ownership:**

Paulsen Family Trust
8494 South 700 East, Suite 150
Sand, Utah 84070
801-619-9200

Other Information:

- The surface soil consists of clay, and silt.
- Flora – vegetation consists of the following: Sagebrush, Juniper and prairie grasses.
- Fauna – antelope, deer, coyotes, raptors, small mammals, and domestic grazing animals.
- Current surface uses – Livestock grazing and mineral exploration and production.

• **Operator and Contact Persons:**

Construction and Reclamation:

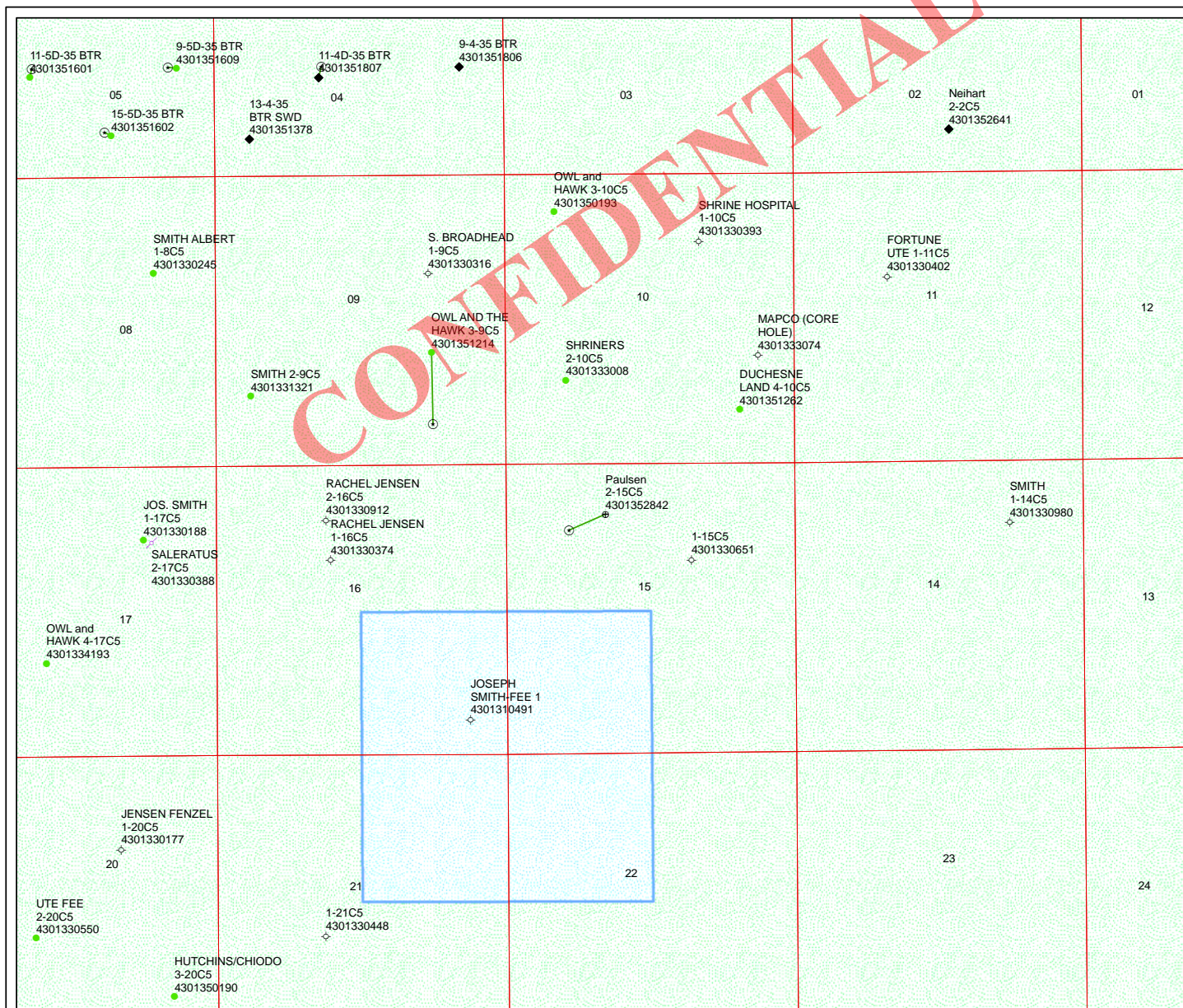
EP Energy E&P Company, L.P.
Wayne Garner
PO Box 410
Altamont, Utah 84001
435-454-3394 – Office
435-823-1490 – Cell

Regarding This APD

EP Energy E&P Company, L.P.
Maria S. Gomez
1001 Louisiana, Rm 2730D
Houston, Texas 77002
713-997-5038 – Office

Drilling

EP Energy E&P Company, L.P.
Brad MacAfee – Drilling Engineer
1001 Louisiana, Rm 2660D
Houston, Texas 77002
713-997-6383 – office
281-813-0902 – Cell

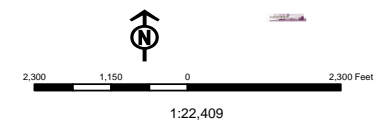
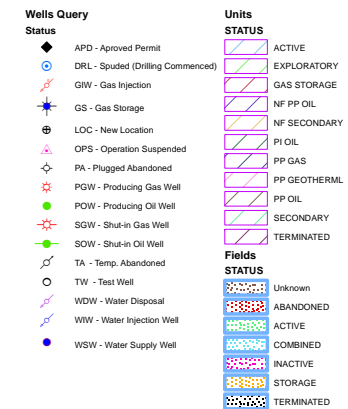


API Number: 4301352842

Well Name: Paulsen 2-15C5

Township: T03.0S Range: R05.0W Section: 15 Meridian: U

Operator: EP ENERGY E&P COMPANY, L.P.

Map Prepared: 2/7/2014
Map Produced by Diana Mason

Well Name	EP ENERGY E&P COMPANY, L.P. Paulsen 2-15C5 43013			
String	COND	SURF	I1	L1
Casing Size(in)	13.375	9.625	7.000	5.000
Setting Depth (TVD)	600	1700	8938	12300
Previous Shoe Setting Depth (TVD)	0	600	1700	8938
Max Mud Weight (ppg)	8.8	9.4	9.8	11.5
BOPE Proposed (psi)	1000	1000	5000	10000
Casing Internal Yield (psi)	2730	5750	11220	13940
Operators Max Anticipated Pressure (psi)	7355			11.5

Calculations	COND String	13.375	"
Max BHP (psi)	.052*Setting Depth*MW=	275	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	203	YES 4.5 x 20 rotating head
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	143	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	143	NO OK
Required Casing/BOPE Test Pressure=		600	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

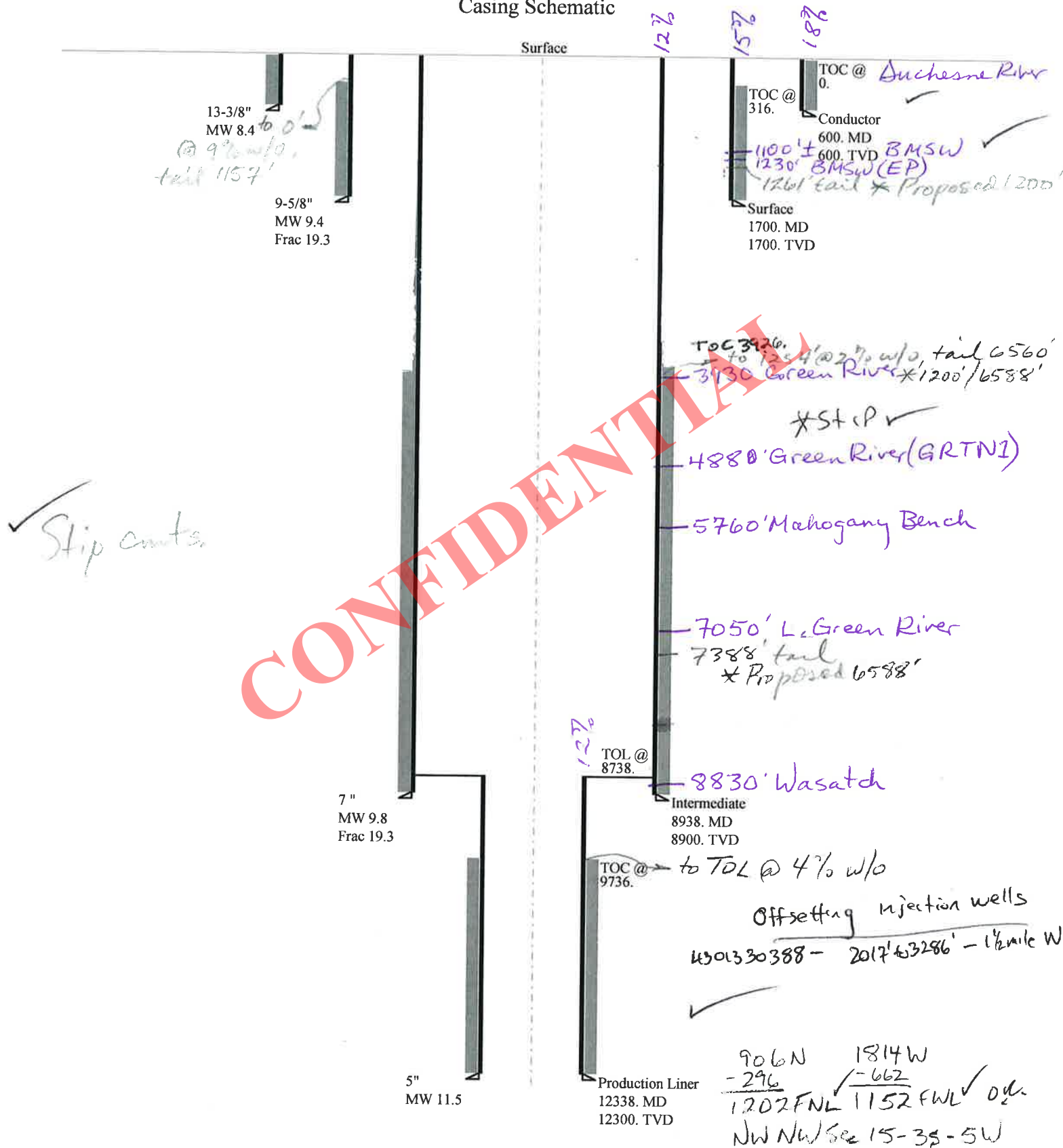
Calculations	SURF String	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	831	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	627	YES 4.5 x 13 3/8 rotating head
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	457	YES
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	589	YES OK
Required Casing/BOPE Test Pressure=		1700	psi
*Max Pressure Allowed @ Previous Casing Shoe=		600	psi *Assumes 1psi/ft frac gradient

Calculations	I1 String	7.000	"
Max BHP (psi)	.052*Setting Depth*MW=	4555	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3482	YES 5M BOP, two ram preventers, annular preventer, kill line,
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2589	YES choke manifold
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	2963	NO OK
Required Casing/BOPE Test Pressure=		7854	psi
*Max Pressure Allowed @ Previous Casing Shoe=		1700	psi *Assumes 1psi/ft frac gradient

Calculations	L1 String	5.000	"
Max BHP (psi)	.052*Setting Depth*MW=	7355	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	5879	YES 10M BOPE w/rotating head, 5M annular, blind rams, flex ram
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	4649	YES mud cross
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	6615	YES OK
Required Casing/BOPE Test Pressure=		9758	psi
*Max Pressure Allowed @ Previous Casing Shoe=		8938	psi *Assumes 1psi/ft frac gradient

43013528420000 Paulsen 2-15C5

Casing Schematic



Well name:	43013528420000 Paulsen 2-15C5	
Operator:	EP ENERGY E&P COMPANY, LP.	
String type:	Conductor	Project ID: 43-013-52842
Location:	DUCHESNE COUNTY	

Design parameters:**Collapse**

Mud weight: 8.400 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 82 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Burst:

Design factor 1.00

Cement top: Surface

Burst

Max anticipated surface pressure: 190 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 262 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.70 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Non-directional string.

Tension is based on buoyed weight.
Neutral point: 525 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	600	13.375	54.50	J-55	ST&C	600	600	12.49	7442

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	262	1130	4.317	262	2730	10.43	28.6	514	17.95 J

Prepared Helen Sadik-Macdonald
by: Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: April 15, 2014
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 600 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name: **43013528420000 Paulsen 2-15C5**
 Operator: **EP ENERGY E&P COMPANY, LP.**
 String type: **Surface**
 Location: **DUCHESNE COUNTY**

Project ID:
43-013-52842

Design parameters:**Collapse**

Mud weight: 9.400 ppg
 Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 98 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft

Cement top: 316 ft

Burst

Max anticipated surface pressure: 1,496 psi
 Internal gradient: 0.120 psi/ft
 Calculated BHP 1,700 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
 8 Round LTC: 1.70 (J)
 Buttress: 1.60 (J)
 Premium: 1.50 (J)
 Body yield: 1.50 (B)

Tension is based on buoyed weight.
 Neutral point: 1,462 ft

Non-directional string.**Re subsequent strings:**

Next setting depth: 8,900 ft
 Next mud weight: 9.800 ppg
 Next setting BHP: 4,531 psi
 Fracture mud wt: 19.250 ppg
 Fracture depth: 1,700 ft
 Injection pressure: 1,700 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	1700	9.625	40.00	N-80	LT&C	1700	1700	8.75	21632
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	830	3090	3.722	1700	5750	3.38	58.5	737	12.60 J

Prepared Helen Sadik-Macdonald
 by: Div of Oil, Gas & Mining

Phone: 801-538-5357
 FAX: 801-359-3940

Date: April 15, 2014
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 1700 ft, a mud weight of 9.4 ppg. The casing is considered to be evacuated for collapse purposes.
 Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	43013528420000 Paulsen 2-15C5	
Operator:	EP ENERGY E&P COMPANY, LP.	
String type:	Intermediate	Project ID: 43-013-52842
Location:	DUCHESNE COUNTY	

Design parameters:**Collapse**

Mud weight: 9.800 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 199 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Cement top: 3,926 ft

Burst

Max anticipated surface pressure: 4,642 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 6,600 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Tension is based on buoyed weight.
Neutral point: 7,612 ft

Directional well information:

Kick-off point 1700 ft
Departure at shoe: 725 ft
Maximum dogleg: 1.5 °/100ft
Inclination at shoe: 0 °

Re subsequent strings:

Next setting depth: 12,300 ft
Next mud weight: 11.500 ppg
Next setting BHP: 7,348 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 8,900 ft
Injection pressure: 8,900 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	8938	7	29.00	HCP-110	LT&C	8900	8938	6.059	100933

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	4531	9200	2.030	6600	11220	1.70	219.8	797	3.63 J

Prepared Helen Sadik-Macdonald
by: Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: May 13, 2014
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 8900 ft, a mud weight of 9.8 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	43013528420000 Paulsen 2-15C5	
Operator:	EP ENERGY E&P COMPANY, LP.	
String type:	Production Liner	Project ID: 43-013-52842
Location:	DUCHESNE COUNTY	

Design parameters:**Collapse**

Mud weight: 11.500 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 246 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Cement top: 9,736 ft

Burst

Max anticipated surface pressure: 4,642 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 7,348 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Liner top: 8,738 ft

Directional Info - Build & Drop

Kick-off point 1700 ft
Departure at shoe: 725 ft
Maximum dogleg: 1.5 °/100ft
Inclination at shoe: 0 °

Tension is based on buoyed weight.
Neutral point: 11,701 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	3638	5	18.00	HCP-110	ST-L	12300	12338	4.151	288130
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	7348	15360	2.090	7348	13940	1.90	54	341	6.31 J

Prepared Helen Sadik-Macdonald
by: Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: April 15, 2014
Salt Lake City, Utah

Remarks:

For this liner string, the top is rounded to the nearest 100 ft. Collapse is based on a vertical depth of 12300 ft, a mud weight of 11.5 ppg. The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

ON-SITE PREDRILL EVALUATION**Utah Division of Oil, Gas and Mining**

Operator EP ENERGY E&P COMPANY, L.P.
Well Name Paulsen 2-15C5
API Number 43013528420000 **APD No** 9380 **Field/Unit** ALTAMONT
Location: 1/4,1/4 NENW **Sec** 15 **Tw** 3.0S **Rng** 5.0W 906 FNL 1814 FWL
GPS Coord (UTM) 547696 4452875 **Surface Owner** Paulsen Family Trust

Participants

Jared Thacker (EP energy); Heather Ivie (Land Man); Dennis Ingram (DOGM)

Regional/Local Setting & Topography

The Paulsen 2-15C5 is proposed in northeastern Utah approximately 4.00 miles north of Duchesne by turning off US Highway 40 onto 700 West for 3.74 miles along a gravel road, then west for another 0.97 miles where the new access road will lead into the location. To the north, much of this surface is bench-like habitat in sagebrush and juniper landscape. To the west, a deep, rocky canyon drains the country southerly into the northern portion of Starvation Reservoir. The reservoir is located approximately a thousand feet from this proposed pad. The immediate surface topography at the pad slopes northwest and has shallow washes that drain storm or run off waters into the canyon west of the pad. The surface vegetation is either pinion juniper, mountain mahogany, rabbit or sagebrush with large sandstone rocks along the surface.

Surface Use Plan**Current Surface Use**

Recreational
Deer Winter Range

**New Road
Miles**

0.25

Well Pad

Width 282 Length 425

Src Const Material

Onsite

Surface Formation

UNTA

Ancillary Facilities N

Closed loop mud system

Waste Management Plan Adequate?**Environmental Parameters**

Affected Floodplains and/or Wetlands N

Flora / Fauna

Pinion Juniper, mountain mahogany, prickly pear cactus; mule deer, elk, mountain lion, coyote, raccoon, rabbit, smaller mammals native to region in lake.

Soil Type and Characteristics

Reddish, brown sandy loam with some clays and underlying sandstone

Erosion Issues Y**Sedimentation Issues Y**

Site Stability Issues N**Drainage Diversion Required?** Y

Tie back into existing washes

Berm Required? Y

Permanent type berming along the western side of location where sandstone ledges break into a drainage toward lake

Erosion Sedimentation Control Required? N**Paleo Survey Run?** N **Paleo Potential Observed?** N **Cultural Survey Run?** N **Cultural Resources?** N**Reserve Pit****Site-Specific Factors****Site Ranking**

Distance to Groundwater (feet)	25 to 75	1 5
Distance to Surface Water (feet)	300 to 1000	2
Dist. Nearest Municipal Well (ft)	500 to 1320	1 0
Distance to Other Wells (feet)	>1320	0
Native Soil Type	High permeability	2 0
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)		0
Affected Populations	> 5 0	> 5 0
Presence Nearby Utility Conduits	Not Present	0
Final Score		62 1 Sensitivity Level

Characteristics / Requirements

Closed loop mud system required because of sandstone at surface and the need for blasting to construct pit, also because of Starvation Reservoir and the drainage to the west of the location.

Closed Loop Mud Required? Y **Liner Required?** **Liner Thickness** **Pit Underlayment Required?**

Other Observations / Comments

Surface owner did not attend, adjacent rocky canyon west of proposed reserve pit and location, sandstone rock at surface in pit area would require blasting to construct, spring water coming from hillside to the west, closed loop mud system required, special berming required along western side of location to prevent spills or leaks from entering same. Also stopped by the Central Utah Water Conservancy District in Duchesne and left a plate showing the proposed disturbance as they have requested in the past; also got them into our website and showed them on the topography map where this well plots up.

Dennis Ingram
Evaluator

3/6/2014
Date / Time

Application for Permit to Drill

Statement of Basis

Utah Division of Oil, Gas and Mining

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
9380	43013528420000	LOCKED	OW	P	No
Operator	EP ENERGY E&P COMPANY, L.P.		Surface Owner-APD	Paulsen Family Trust	
Well Name	Paulsen 2-15C5		Unit		
Field	ALTAMONT		Type of Work	DRILL	
Location	NENW 15 3S 5W U 906 FNL (UTM) 547692E 4452859N		1814 FWL	GPS Coord	

Geologic Statement of Basis

EP proposes to set 600 feet of conductor and 1,700 feet of surface casing both of which will be cemented to surface. The surface hole will be drilled utilizing fresh water mud. The estimated depth to the base of moderately saline ground water is 1,100 feet. A search of Division of Water Rights records indicates that there are 24 water wells within a 10,000 foot radius of the center of Section 15. These wells range in depth from 35-440 feet. Wells in this area produce water from the Duchesne River Formation and alluvium derived from the Duchesne River Formation. The wells are listed as being used for irrigation, stock watering, municipal, oil exploration and domestic. The proposed drilling, casing and cement program should adequately protect usable ground water in this area.

Brad Hill
APD Evaluator

3/19/2014
Date / Time

Surface Statement of Basis

Surface area and well staking in juniper trees with large sandstone surface covering much of where the proposed reserve pit is staked. Adjacent canyon leads approximately a thousand feet to the lake, spring water was observed west of the location coming from adjacent sandstone outcroppings. It has been determined that blasting would be required to construct a reserve pit; therefore, a closed loop mud system shall be required because of the potential of fractured rocks and spring, ground, or lake water contamination. A permanent berm should also be constructed along the west side or that overlooking the canyon that drains into the Starvation Reservoir. Existing drainages shall also be diverted to limit erosion.

A presite was scheduled and performed on the Paulsen 2-15C5 to take input and address issues regarding the construction and drilling of this well. The landowner of record was contacted and invited to the presite. EP Energy has submitted documentation to the Division stating they have a signed landowner or surface disturbance agreement. A visit to the Central Utah Water Conservancy District Office was made to review this well site and future plans. Once again that group expressed concerns about keeping oil or any drilling fluids away from the Reservoir. The closed loop mud system and permanent type berming was stipulated to assure water quality in that reservoir.

Dennis Ingram
Onsite Evaluator

3/6/2014
Date / Time

Conditions of Approval / Application for Permit to Drill

RECEIVED: May 14, 2014

Category	Condition
Pits	A closed loop mud circulation system is required for this location.
Surface	The well site shall be bermed to prevent fluids from entering or leaving the pad. Berming on the lake side of the pad shall have permanent type berming around the western sides to prevent spills or leaks from leaving well site and flowing into broken, sandstone draw canyon that drains toward and into Starvation Reservoir.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.

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WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 2/5/2014

API NO. ASSIGNED: 43013528420000

WELL NAME: Paulsen 2-15C5

OPERATOR: EP ENERGY E&P COMPANY, L.P. (N3850)

PHONE NUMBER: 713 997-5038

CONTACT: Maria S. Gomez

PROPOSED LOCATION: NENW 15 030S 050W

Permit Tech Review: ☒

SURFACE: 0906 FNL 1814 FWL

Engineering Review: ☒

BOTTOM: 1200 FNL 1150 FWL

Geology Review: ☒

COUNTY: DUCHESNE

LATITUDE: 40.22480

LONGITUDE: -110.43944

UTM SURF EASTINGS: 547692.00

NORTHINGS: 4452859.00

FIELD NAME: ALTAMONT

LEASE TYPE: 4 - Fee

LEASE NUMBER: Fee

PROPOSED PRODUCING FORMATION(S): GREEN RIVER(LWR)-WASATCH

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- ☒ PLAT
- ☒ Bond: STATE - 400JU0708
- ☐ Potash
- ☐ Oil Shale 190-5
- ☐ Oil Shale 190-3
- ☐ Oil Shale 190-13
- ☒ Water Permit: Duchesne City
- ☐ RDCC Review:
- ☒ Fee Surface Agreement
- ☐ Intent to Commingle

Commingling Approved

LOCATION AND SITING:

- ☐ R649-2-3.
- Unit:
- ☐ R649-3-2. General
- ☐ R649-3-3. Exception
- ☒ Drilling Unit
- Board Cause No: Cause 139-85
- Effective Date: 3/11/2010
- Siting: 4 Wells Per 640 Acre
- ☒ R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 5 - Statement of Basis - bhill
8 - Cement to Surface -- 2 strings - hmadonald
13 - Cement Volume Formation (3a) - hmadonald
15 - Directional - dmason

RECEIVED: May 14, 2014



GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Paulsen 2-15C5

API Well Number: 43013528420000

Lease Number: Fee

Surface Owner: FEE (PRIVATE)

Approval Date: 5/14/2014

Issued to:

EP ENERGY E&P COMPANY, L.P., 1001 Louisiana, Houston, TX 77002

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-85. The expected producing formation or pool is the GREEN RIVER(LWR)-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Cement volumes for the 13 3/8" and 9 5/8" casing strings shall be determined from actual hole diameters in order to place cement from the pipe setting depths back to the surface.

Cement volume for the 7" intermediate string shall be determined from actual hole diameter in order to place lead cement from the pipe setting depth back to 1200' MD and tail to 500' above the lower Green River.

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and Mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan - contact Dustin Doucet
- Significant plug back of the well - contact Dustin Doucet
- Plug and abandonment of the well - contact Dustin Doucet

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels
OR
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
at <http://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing - contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program
- contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well - contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
801-231-8956 - after office hours

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

Approved By:

Approved By:

A handwritten signature in black ink, appearing to read 'J. Rogers', written over a light blue horizontal line.

For John Rogers
Associate Director, Oil & Gas

 Alexis Huefner <alexishuefner@utah.gov>

spud date

1 message

RLANDRIG008 <RLANDRIG008@epenergy.com>

Mon, Jun 30, 2014 at 9:06 PM

To: Alexis Huefner <alexishuefner@utah.gov>, "MacAfee, Bradley D" <Brad.MacAfee@epenergy.com>, Carol Daniels <caroldaniels@utah.org>, "dennisingram@utah.gov" <dennisingram@utah.gov>, "Morales, Lisa" <Lisa.Morales@epenergy.com>, "Gomez, Maria S" <Maria.Gomez@epenergy.com>, "Evans, Perry (Contractor)" <Perry.Evans@epenergy.com>, "Ward, Julia A (Julie)" <Julie.Ward@epenergy.com>

We will be spud the Paulsen 2-15C5 on 7/01/2014.

4301352842

906 FNL 1814 FWL

NENW 1538 SW

Thanks

Kenneth SWILLEY

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THIS E-MAIL AND ANY MATERIALS TRANSMITTED WITH IT MAY CONTAIN CONFIDENTIAL OR PROPRIETARY MATERIAL FOR THE SOLE USE OF THE INTENDED RECIPIENT. ANY REVIEW, USE, DISTRIBUTION OR DISCLOSURE BY OTHERS IS STRICTLY PROHIBITED. IF YOU ARE NOT THE INTENDED RECIPIENT, OR AUTHORIZED TO RECEIVE THE INFORMATION FROM THE RECIPIENT, PLEASE NOTIFY THE SENDER BY REPLY E-MAIL AND DELETE ALL COPIES OF THIS MESSAGE.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1001 Louisiana, Houston, TX, 77002		8. WELL NAME and NUMBER: Paulsen 2-15C5
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0906 FNL 1814 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 15 Township: 03.0S Range: 05.0W Meridian: U		9. API NUMBER: 43013528420000
PHONE NUMBER: 713 997-5038 Ext		9. FIELD and POOL or WILDCAT: ALTAMONT
COUNTY: DUCHESNE		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 8/14/2014	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="Initial Completion"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 EP plans to perform an initial completion in the Wasatch. Please see attached for details.

Approved by the
August 15, 2014
Oil, Gas and Mining

Date: _____

By: Derek Duff

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analyst
SIGNATURE N/A	DATE 8/12/2014	

Paulsen 2-15C5**Initial Completion****API # : 43013528420000**

The following precautions will be taken until the RCA for the Conover is completed:

1. Review torque turning and running of the 7" and 5" liner of anomalies.
2. Test and chart casing for 30 minutes, noting pressure if any on surface casing.
3. Test all lubricators, valves and BOP's to working pressure.
4. Wellhead isolation tools will continue to be used to isolate the wellhead during the frac.
5. Monitor the surface casing during frac:
 - a. Lay a flowline to the flow back tank and keep the valve open.
 - b. This line will remain in place until a wire line set retrievable packer is in place isolating the 5" casing from the 7" after the frac.
6. 2 7/8" tubing will be run to isolate the 7" casing during the flow back of the well.
7. Well pressure and annulus pressure would be monitored during this time until the well is ready for pump.

Completion Information (Wasatch Formation)

Stage #1	RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~11194' – 11493' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~145000 # of Power Prop 20/40. Total clean water volume is 122199 gals.
Stage #2	RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~10848' – 11164' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~155000 # of Power Prop 20/40. Total clean water volume is 128300 gals.
Stage #3	RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~10499' – 10814' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~145000 # of Power Prop 20/40. Total clean water volume is 121162 gals.
Stage #4	RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~10137' – 10462' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 168130 gals.
Stage #5	RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~9816' – 10074' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~140000 # of TLC 30/50. Total clean water volume is 158558 gals.

Stage #6 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~9513' – 9783' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~140000 # of TLC 30/50. Total clean water volume is 156331 gals.

Stage #7 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~9209' – 9480' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 164438 gals.

Stage #8 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~8945' – 9182' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~130000 # of TLC 30/50. Total clean water volume is 147574 gals.

Stimulation Summary

	Top Perf	Btm. Perf	Gross Interval	Plug Depth	Net Perf Length	Total Shots	Perf Intervals	Type of Prop	Lbs of Prop	Lbs/ft	Lbs of 100 Mesh	Gals of HCL (15%)	Gals of Clean H2O	Gals of Slurry
Stage #1	11,194	11,493	299	NA	23	69	17	Power Prop 20/40	145,000	485	3,000	5,000	122,199	138,352
Stage #2	10,848	11,164	316	11,174	23	69	17	Power Prop 20/40	155,000	491	3,000	5,000	128,300	145,206
Stage #3	10,499	10,814	315	10,824	23	69	17	Power Prop 20/40	145,000	460	3,000	5,000	121,162	137,315
Stage #4	10,137	10,462	325	10,472	23	69	16	TLC 30/50	150,000	462	3,000	5,000	168,130	189,954
Stage #5	9,816	10,074	258	10,084	22	66	16	TLC 30/50	140,000	543	3,000	5,000	158,558	179,609
Stage #6	9,513	9,783	270	9,793	23	69	17	TLC 30/50	140,000	519	3,000	5,000	156,331	177,382
Stage #7	9,209	9,480	271	9,490	23	69	17	TLC 30/50	150,000	554	3,000	5,000	164,438	186,262
Stage #8	8,945	9,182	237	9,192	23	69	17	TLC 30/50	130,000	549	3,000	5,000	147,574	167,853
Average per Stage			286		23	69	17		144,375	508	3,000	5,000	145,837	165,242
Totals per Well			2,291		183	549	134		1,155,000		24,000	40,000	1,166,692	1,321,934

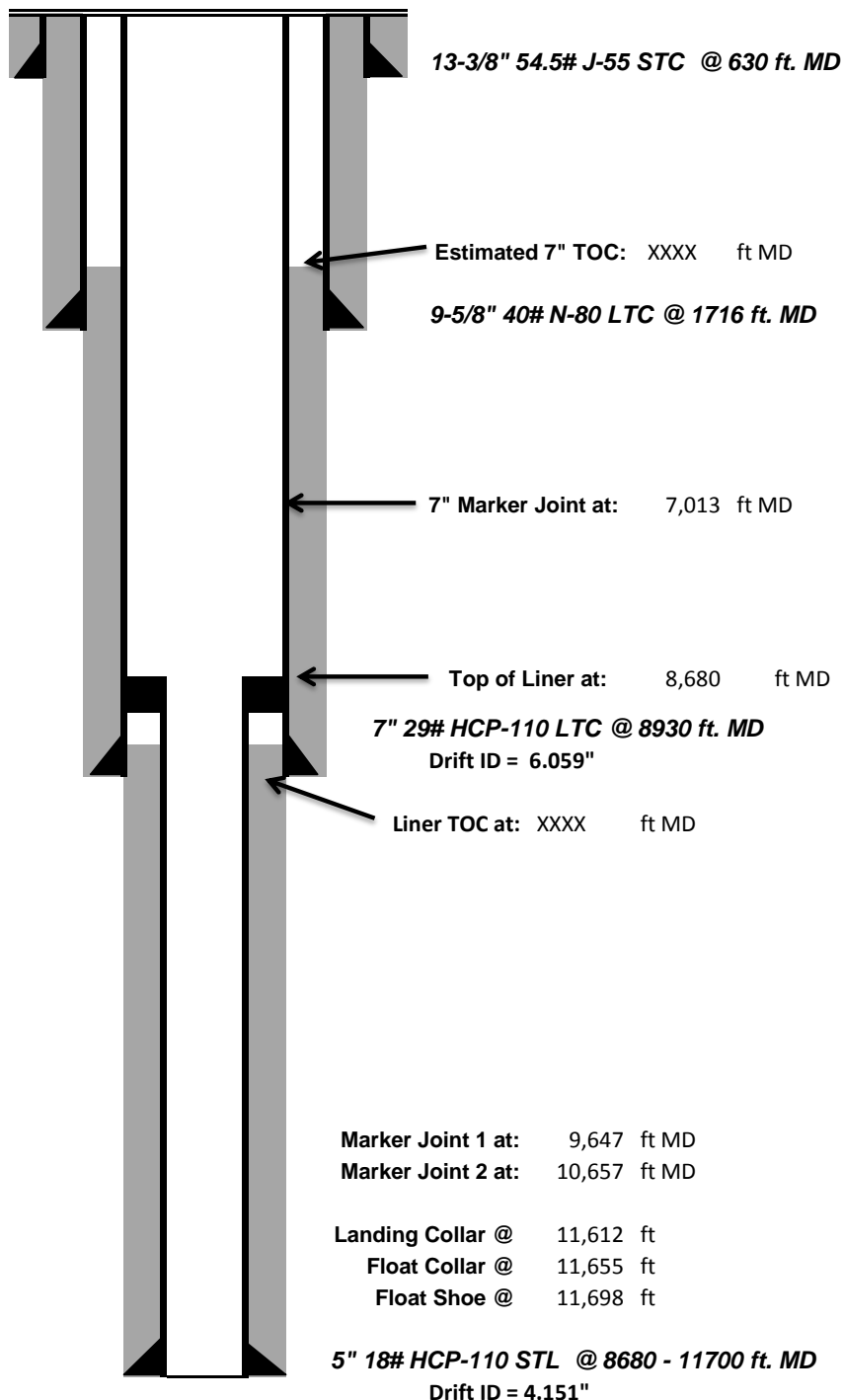


Pre-Completion Wellbore Schematic

Well Name: **Paulsen 2-15C5**
Company Name: **EP Energy**
Field, County, State: **Altamont, Duchesne, UT**
Surface Location: **Lat: 40°13'29.635" N Long: 110°26'21.721" W**
Producing Zone(s): **Wasatch**

Last Updated: **8/12/2014**
By: **Jarrold Kent**
TD: **11,655**
API: **43013528420000**
AFE: **159887**

8.43 ppg KCL substitute (Clay Webb Water)
water in the wellbore



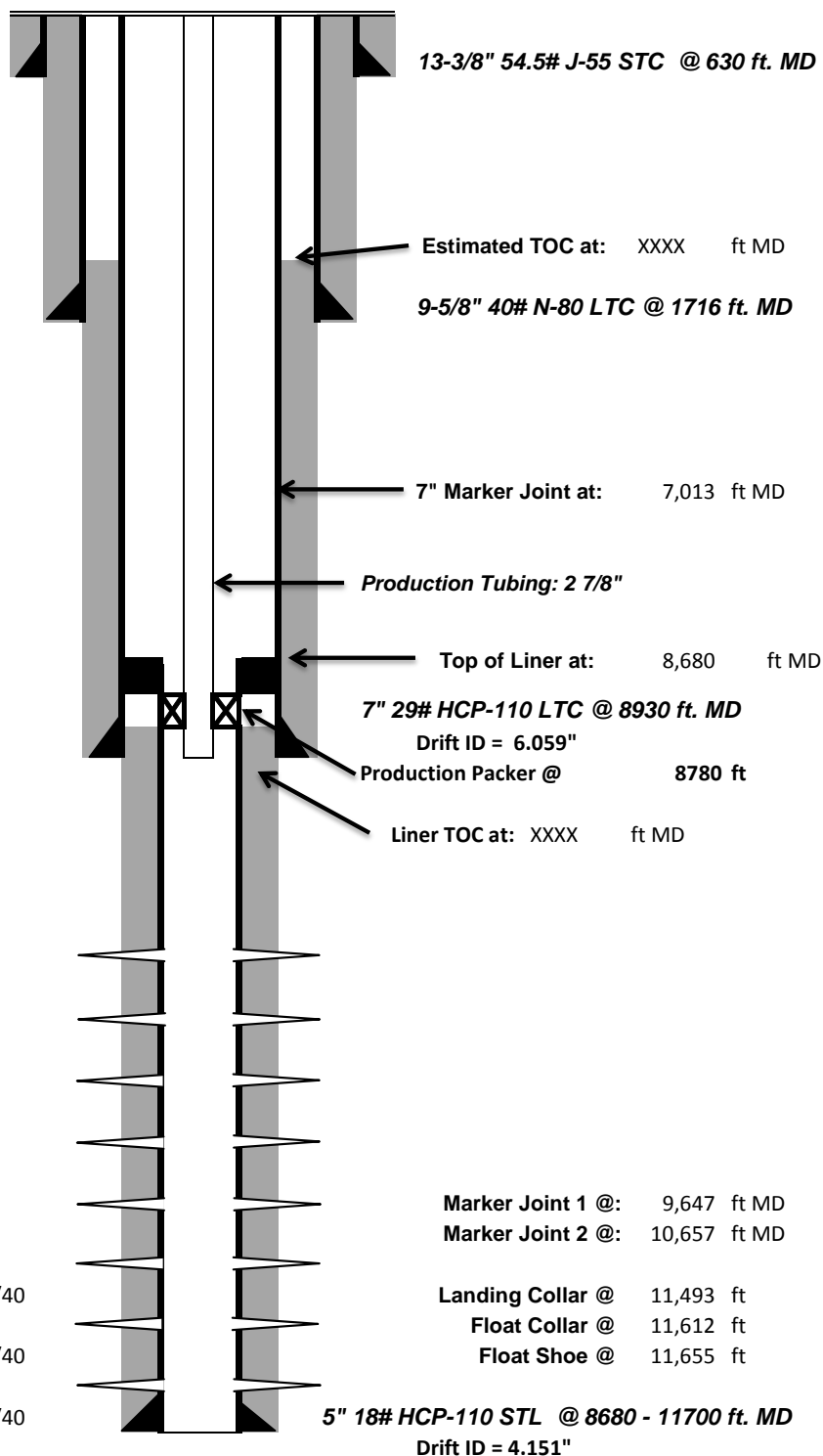


Post-Completion Wellbore Schematic

Well Name: **Paulsen 2-15C5**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, UT**
 Surface Location: **Lat: 40°13'29.635" N Long: 110°26'21.721" W**
 Producing Zone(s): **Wasatch**

Last Updated: **8/12/2014**
 By: **Jarrod Kent**
 TD: **11,655**
 API: **43013528420000**
 AFE: **159887**

8.43 ppg KCL substitute (Clay Webb Water)
 water in the wellbore



Initial Completion Perf Information

Stage #8	8945 - 9182	23' /69 shots
	5000 gal HCL & 130000 lbs TLC 30/50	
Stage #7	9209 - 9480	23' /69 shots
	5000 gal HCL & 150000 lbs TLC 30/50	
Stage #6	9513 - 9783	23' /69 shots
	5000 gal HCL & 140000 lbs TLC 30/50	
Stage #5	9816 - 10074	22' /66 shots
	5000 gal HCL & 140000 lbs TLC 30/50	
Stage #4	10137 - 10462	23' /69 shots
	5000 gal HCL & 150000 lbs TLC 30/50	
Stage #3	10499 - 10814	23' /69 shots
	5000 gal HCL & 145000 lbs Power Prop 20/40	
Stage #2	10848 - 11164	23' /69 shots
	5000 gal HCL & 155000 lbs Power Prop 20/40	
Stage #1	11194 - 11493	23' /69 shots
	5000 gal HCL & 145000 lbs Power Prop 20/40	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MININGAMENDED REPORT ☐ FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG						5. LEASE DESIGNATION AND SERIAL NUMBER:					
						6. IF INDIAN, ALLOTTEE OR TRIBE NAME					
						7. UNIT or CA AGREEMENT NAME					
						8. WELL NAME and NUMBER:					
1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____						9. API NUMBER:					
b. TYPE OF WORK: NEW WELL <input type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____						10 FIELD AND POOL, OR WILDCAT					
2. NAME OF OPERATOR:						11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:					
3. ADDRESS OF OPERATOR: CITY _____ STATE _____ ZIP _____						PHONE NUMBER: _____		12. COUNTY		13. STATE UTAH	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: AT TOP PRODUCING INTERVAL REPORTED BELOW: AT TOTAL DEPTH:						17. ELEVATIONS (DF, RKB, RT, GL):					
14. DATE SPUDDED:		15. DATE T.D. REACHED:		16. DATE COMPLETED:		ABANDONED <input type="checkbox"/> READY TO PRODUCE <input type="checkbox"/>					
18. TOTAL DEPTH: MD _____ TVD _____		19. PLUG BACK T.D.: MD _____ TVD _____		20. IF MULTIPLE COMPLETIONS, HOW MANY? *		21. DEPTH BRIDGE PLUG SET: MD _____ TVD _____					
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)						23. WAS WELL CORED? NO <input type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input type="checkbox"/> (Submit copy)					
24. CASING AND LINER RECORD (Report all strings set in well)											
HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED		
25. TUBING RECORD											
SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)			
26. PRODUCING INTERVALS					27. PERFORATION RECORD						
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS			
(A)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>			
(B)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>			
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>			
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>			
28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. See attached for further information on #27 & #28.											
DEPTH INTERVAL		AMOUNT AND TYPE OF MATERIAL									
29. ENCLOSED ATTACHMENTS: All logs are submitted to UDOGM by vendor.								30. WELL STATUS:			
<input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS				<input type="checkbox"/> GEOLOGIC REPORT		<input type="checkbox"/> DST REPORT		<input type="checkbox"/> DIRECTIONAL SURVEY			
<input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION				<input type="checkbox"/> CORE ANALYSIS		<input type="checkbox"/> OTHER: _____					

31. INITIAL PRODUCTION**INTERVAL A (As shown in item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)**33. SUMMARY OF POROUS ZONES (Include Aquifers):**

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)

35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) _____ TITLE _____

SIGNATURE _____ DATE _____

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

Attachment to Well Completion Report**Form 8 Dated September 20, 2014****Well Name: Paulsen 2-15C5****Items #27 and #28 Continued****27. Perforation Record**

Interval (Top/Bottom – MD)	Size	No. of Holes	Perf. Status
9813'-10073'	.43	69	Open
9510'-9781'	.43	69	Open
9205'-9477'	.43	69	Open
8940'-9179'	.43	69	Open

28. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
10131'-10460'	5000 gal acid, 3000# 100 mesh, 150000# 30/50 TLC
9813'-10073'	5000 gal acid, 3000# 100 mesh, 140000# 30/50 TLC
9510'-9781'	5000 gal acid, 3000# 100 mesh, 133000# 30/50 TLC
9205'-9477'	5000 gal acid, 3000# 100 mesh, 155000# 30/50 TLC
8940'-9179'	5000 gal acid, 3000# 100 mesh, 131580# 30/50 TLC



Company: EP Energy
Well: Paulsen 2-15C5
Location: Duchesne, UT
Rig: Precision 404

Job Number: _____
Mag Decl.: _____
Dir Driller: _____
MWD Eng: _____

Calculation Method Minimum Curvature
Proposed Azimuth 0.00
Depth Reference KB
Tie Into: Gyro/MWD

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth			
Tie In	0.00	0.00	0.00										
1	100.00	0.18	93.00	100.00	100.00	-0.01	0.01 S	0.16 E	0.16	93.00	0.18	0.18	93.00
2	200.00	0.10	182.81	100.00	200.00	-0.11	0.11 S	0.31 E	0.33	108.64	0.21	-0.08	89.81
3	300.00	0.11	159.53	100.00	300.00	-0.29	0.29 S	0.34 E	0.45	129.96	0.05	0.01	-23.28
4	400.00	0.17	282.94	100.00	400.00	-0.35	0.35 S	0.23 E	0.42	146.36	0.25	0.06	123.41
5	500.00	0.07	297.77	100.00	500.00	-0.29	0.29 S	0.03 E	0.29	173.32	0.11	-0.11	14.82
6	600.00	0.18	280.63	100.00	600.00	-0.23	0.23 S	0.17 W	0.29	216.46	0.12	0.12	-17.13
7	700.00	0.18	181.17	100.00	700.00	-0.36	0.36 S	0.33 W	0.49	222.63	0.27	0.00	-99.46
8	800.00	0.25	286.62	100.00	800.00	-0.45	0.45 S	0.54 W	0.70	230.54	0.35	0.08	105.45
9	900.00	0.30	205.19	100.00	900.00	-0.62	0.62 S	0.87 W	1.07	234.42	0.36	0.05	-81.43
10	1000.00	0.23	247.04	100.00	1000.00	-0.93	0.93 S	1.16 W	1.49	231.21	0.20	-0.07	41.85
11	1100.00	0.16	258.82	100.00	1100.00	-1.04	1.04 S	1.49 W	1.81	235.01	0.08	-0.07	11.78
12	1200.00	0.49	309.71	100.00	1199.99	-0.80	0.80 S	1.95 W	2.11	247.81	0.40	0.33	50.89
13	1300.00	0.57	313.83	100.00	1299.99	-0.18	0.18 S	2.64 W	2.64	266.03	0.09	0.08	4.13
14	1400.00	0.63	314.12	100.00	1399.98	0.54	0.54 N	3.38 W	3.43	279.05	0.06	0.06	0.28
15	1500.00	0.66	322.23	100.00	1499.98	1.37	1.37 N	4.13 W	4.35	288.39	0.10	0.03	8.11
16	1600.00	0.55	317.95	100.00	1599.97	2.18	2.18 N	4.80 W	5.27	294.44	0.12	-0.11	-4.27
17	1650.00	0.49	306.97	50.00	1649.97	2.49	2.49 N	5.13 W	5.70	295.86	0.23	-0.12	-21.97
18	1733.00	0.48	315.34	83.00	1732.97	2.95	2.95 N	5.66 W	6.38	297.51	0.09	-0.01	10.09
19	1826.00	1.76	268.52	93.00	1825.95	3.19	3.19 N	7.36 W	8.02	293.42	1.58	1.38	-50.34
20	1919.00	3.92	279.94	93.00	1918.83	3.70	3.70 N	11.92 W	12.48	287.24	2.39	2.32	12.28
21	2012.00	5.93	280.39	93.00	2011.48	5.11	5.11 N	19.77 W	20.42	284.50	2.16	2.16	0.48
22	2105.00	5.84	277.58	93.00	2103.99	6.60	6.60 N	29.19 W	29.93	282.75	0.32	-0.10	-3.02
23	2198.00	5.46	275.85	93.00	2196.54	7.68	7.68 N	38.28 W	39.04	281.34	0.45	-0.41	-1.86
24	2291.00	7.10	275.39	93.00	2288.98	8.67	8.67 N	48.41 W	49.18	280.15	1.76	1.76	-0.49
25	2384.00	7.48	271.39	93.00	2381.23	9.36	9.36 N	60.18 W	60.90	278.84	0.68	0.41	-4.30
26	2476.00	7.58	270.74	92.00	2472.43	9.58	9.58 N	72.23 W	72.87	277.56	0.14	0.11	-0.71
27	2569.00	7.23	267.47	93.00	2564.66	9.40	9.40 N	84.21 W	84.74	276.37	0.59	-0.38	-3.52
28	2662.00	5.67	260.48	93.00	2657.07	8.38	8.38 N	94.59 W	94.96	275.06	1.87	-1.68	-7.52
29	2755.00	6.88	253.59	93.00	2749.51	6.05	6.05 N	104.47 W	104.64	273.31	1.53	1.30	-7.41
30	2848.00	7.89	253.09	93.00	2841.74	2.62	2.62 N	115.92 W	115.95	271.29	1.09	1.09	-0.54
31	2941.00	7.29	248.24	93.00	2933.92	-1.43	1.43 S	127.50 W	127.51	269.36	0.94	-0.65	-5.22
32	3035.00	7.06	247.23	94.00	3027.19	-5.87	5.87 S	138.37 W	138.49	267.57	0.28	-0.24	-1.07
33	3128.00	6.44	245.02	93.00	3119.54	-10.29	10.29 S	148.37 W	148.72	266.03	0.72	-0.67	-2.38
34	3221.00	7.15	248.58	93.00	3211.89	-14.60	14.60 S	158.48 W	159.15	264.74	0.89	0.76	3.83
35	3315.00	6.40	244.22	94.00	3305.23	-19.02	19.02 S	168.65 W	169.72	263.57	0.97	-0.80	-4.64



Company: EP Energy
Well: Paulsen 2-15C5
Location: Duchesne, UT
Rig: Precision 404

Job Number: _____
Mag Decl.: _____
Dir Driller: _____
MWD Eng: _____

Calculation Method Minimum Curvature
Proposed Azimuth 0.00
Depth Reference KB
Tie Into: Gyro/MWD

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth			
36	3408.00	7.11	246.51	93.00	3397.59	-23.57	23.57	S 178.59	W 180.14	262.48	0.82	0.76	2.46
37	3501.00	7.80	256.53	93.00	3489.80	-27.33	27.33	S 190.01	W 191.96	261.81	1.58	0.74	10.77
38	3594.00	6.59	252.45	93.00	3582.07	-30.41	30.41	S 201.23	W 203.52	261.41	1.41	-1.30	-4.39
39	3687.00	5.71	245.23	93.00	3674.54	-33.96	33.96	S 210.52	W 213.25	260.84	1.26	-0.95	-7.76
40	3781.00	5.94	251.84	94.00	3768.05	-37.43	37.43	S 219.39	W 222.56	260.32	0.75	0.24	7.03
41	3874.00	7.57	253.18	93.00	3860.40	-40.71	40.71	S 229.83	W 233.41	259.96	1.76	1.75	1.44
42	3967.00	8.64	253.37	93.00	3952.47	-44.48	44.48	S 242.39	W 246.43	259.60	1.15	1.15	0.20
43	4061.00	9.41	254.66	94.00	4045.31	-48.53	48.53	S 256.56	W 261.11	259.29	0.85	0.82	1.37
44	4154.00	8.48	251.97	93.00	4137.18	-52.66	52.66	S 270.41	W 275.50	258.98	1.10	-1.00	-2.89
45	4247.00	8.58	251.57	93.00	4229.15	-56.98	56.98	S 283.52	W 289.19	258.64	0.13	0.11	-0.43
46	4340.00	8.76	253.25	93.00	4321.09	-61.21	61.21	S 296.88	W 303.12	258.35	0.33	0.19	1.81
47	4433.00	7.14	246.37	93.00	4413.19	-65.57	65.57	S 308.96	W 315.84	258.02	2.02	-1.74	-7.40
48	4526.00	8.04	248.62	93.00	4505.37	-70.26	70.26	S 320.31	W 327.92	257.63	1.02	0.97	2.42
49	4620.00	7.98	246.61	94.00	4598.46	-75.25	75.25	S 332.42	W 340.83	257.25	0.30	-0.06	-2.14
50	4713.00	7.96	251.85	93.00	4690.56	-79.82	79.82	S 344.46	W 353.59	256.95	0.78	-0.02	5.63
51	4806.00	9.23	253.43	93.00	4782.51	-83.95	83.95	S 357.73	W 367.45	256.79	1.39	1.37	1.70
52	4899.00	9.04	257.65	93.00	4874.34	-87.64	87.64	S 372.02	W 382.20	256.74	0.75	-0.20	4.54
53	4993.00	8.70	264.87	94.00	4967.21	-89.85	89.85	S 386.31	W 396.62	256.91	1.24	-0.36	7.68
54	5086.00	8.69	277.36	93.00	5059.15	-89.58	89.58	S 400.29	W 410.19	257.39	2.03	-0.01	13.43
55	5178.00	8.90	280.56	92.00	5150.07	-87.39	87.39	S 414.18	W 423.29	258.09	0.58	0.23	3.48
56	5272.00	8.66	275.66	94.00	5242.97	-85.36	85.36	S 428.37	W 436.79	258.73	0.84	-0.26	-5.21
57	5365.00	9.30	271.61	93.00	5334.83	-84.46	84.46	S 442.85	W 450.83	259.20	0.97	0.69	-4.35
58	5458.00	10.23	269.17	93.00	5426.49	-84.36	84.36	S 458.62	W 466.31	259.58	1.09	1.00	-2.62
59	5551.00	9.16	269.88	93.00	5518.16	-84.50	84.50	S 474.28	W 481.74	259.90	1.16	-1.15	0.76
60	5645.00	7.83	266.71	94.00	5611.12	-84.88	84.88	S 488.15	W 495.48	260.14	1.50	-1.41	-3.37
61	5738.00	7.05	265.86	93.00	5703.34	-85.66	85.66	S 500.17	W 507.45	260.28	0.85	-0.84	-0.91
62	5831.00	6.08	262.38	93.00	5795.73	-86.72	86.72	S 510.74	W 518.05	260.36	1.13	-1.04	-3.74
63	5924.00	5.41	256.23	93.00	5888.26	-88.42	88.42	S 519.88	W 527.35	260.35	0.98	-0.72	-6.61
64	6017.00	5.29	255.13	93.00	5980.86	-90.56	90.56	S 528.28	W 535.99	260.27	0.17	-0.13	-1.18
65	6110.00	5.08	252.70	93.00	6073.48	-92.89	92.89	S 536.36	W 544.34	260.17	0.33	-0.23	-2.61
66	6204.00	4.88	250.76	94.00	6167.12	-95.44	95.44	S 544.11	W 552.41	260.05	0.28	-0.21	-2.06
67	6297.00	4.74	247.60	93.00	6259.79	-98.21	98.21	S 551.39	W 560.07	259.90	0.32	-0.15	-3.40
68	6390.00	4.73	243.45	93.00	6352.48	-101.39	101.39	S 558.38	W 567.51	259.71	0.37	-0.01	-4.46
69	6483.00	4.54	239.01	93.00	6445.17	-105.00	105.00	S 564.96	W 574.64	259.47	0.44	-0.20	-4.77
70	6576.00	4.31	235.56	93.00	6537.90	-108.87	108.87	S 571.00	W 581.29	259.21	0.38	-0.25	-3.71
71	6669.00	4.11	234.76	93.00	6630.64	-112.77	112.77	S 576.60	W 587.53	258.93	0.22	-0.22	-0.86
72	6762.00	4.10	228.00	93.00	6723.41	-116.92	116.92	S 581.80	W 593.43	258.64	0.52	-0.01	-7.27



Company: EP Energy
Well: Paulsen 2-15C5
Location: Duchesne, UT
Rig: Precision 404

Job Number: _____
Mag Decl.: _____
Dir Driller: _____
MWD Eng: _____

Calculation Method Minimum Curvature
Proposed Azimuth 0.00
Depth Reference KB
Tie Into: Gyro/MWD

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth			
73	6856.00	3.81	224.90	94.00	6817.18	-121.38	121.38 S	586.50 W	598.93	258.31	0.38	-0.31	-3.30
74	6949.00	3.75	217.60	93.00	6909.98	-125.98	125.98 S	590.53 W	603.82	257.96	0.52	-0.06	-7.85
75	7042.00	3.64	215.83	93.00	7002.79	-130.78	130.78 S	594.12 W	608.34	257.59	0.17	-0.12	-1.90
76	7135.00	4.16	211.17	93.00	7095.57	-136.06	136.06 S	597.59 W	612.89	257.17	0.65	0.56	-5.01
77	7228.00	4.27	210.16	93.00	7188.32	-141.94	141.94 S	601.08 W	617.61	256.71	0.14	0.12	-1.09
78	7321.00	3.38	230.21	93.00	7281.12	-146.69	146.69 S	604.92 W	622.45	256.37	1.71	-0.96	21.56
79	7414.00	3.01	242.21	93.00	7373.97	-149.58	149.58 S	609.19 W	627.29	256.20	0.82	-0.40	12.90
80	7508.00	3.04	268.32	94.00	7467.85	-150.80	150.80 S	613.87 W	632.12	256.20	1.45	0.03	27.78
81	7601.00	2.96	257.41	93.00	7560.72	-151.40	151.40 S	618.67 W	636.93	256.25	0.62	-0.09	-11.73
82	7694.00	2.81	246.53	93.00	7653.60	-152.83	152.83 S	623.11 W	641.58	256.22	0.61	-0.16	-11.70
83	7788.00	2.50	230.04	94.00	7747.50	-155.06	155.06 S	626.79 W	645.69	256.10	0.87	-0.33	-17.54
84	7881.00	2.49	220.32	93.00	7840.42	-157.91	157.91 S	629.66 W	649.15	255.92	0.45	-0.01	-10.45
85	7974.00	2.85	215.93	93.00	7933.31	-161.32	161.32 S	632.32 W	652.57	255.69	0.44	0.39	-4.72
86	8000.00	2.70	213.01	26.00	7959.28	-162.36	162.36 S	633.03 W	653.52	255.62	0.79	-0.57	-11.22
87	8100.00	2.37	224.90	100.00	8059.19	-165.80	165.80 S	635.78 W	657.04	255.38	0.62	-0.33	11.88
88	8200.00	2.53	219.24	100.00	8159.10	-168.97	168.97 S	638.63 W	660.61	255.18	0.29	0.15	-5.65
89	8300.00	2.14	203.21	100.00	8259.01	-172.39	172.39 S	640.76 W	663.55	254.94	0.76	-0.39	-16.04
90	8400.00	2.29	206.87	100.00	8358.94	-175.88	175.88 S	642.40 W	666.04	254.69	0.21	0.15	3.67
91	8500.00	2.22	212.83	100.00	8458.86	-179.29	179.29 S	644.35 W	668.82	254.45	0.24	-0.07	5.95
92	8600.00	2.52	223.29	100.00	8558.78	-182.51	182.51 S	646.90 W	672.16	254.24	0.53	0.31	10.47
93	8700.00	2.17	225.91	100.00	8658.69	-185.43	185.43 S	649.77 W	675.71	254.07	0.37	-0.35	2.61
94	8800.00	2.48	207.54	100.00	8758.61	-188.66	188.66 S	652.13 W	678.87	253.86	0.80	0.31	-18.37
95	8900.00	3.27	196.03	100.00	8858.49	-193.32	193.32 S	653.92 W	681.89	253.53	0.98	0.80	-11.51
96	9000.00	2.90	187.66	100.00	8958.34	-198.57	198.57 S	655.04 W	684.47	253.14	0.58	-0.37	-8.37
97	9100.00	2.39	184.26	100.00	9058.23	-203.15	203.15 S	655.53 W	686.29	252.78	0.53	-0.50	-3.40
98	9200.00	2.42	202.51	100.00	9158.15	-207.18	207.18 S	656.50 W	688.41	252.48	0.76	0.03	18.24
99	9300.00	2.47	191.88	100.00	9258.06	-211.24	211.24 S	657.75 W	690.84	252.20	0.46	0.05	-10.62
100	9400.00	2.97	195.73	100.00	9357.94	-215.84	215.84 S	658.89 W	693.35	251.86	0.53	0.50	3.85
101	9500.00	3.41	195.13	100.00	9457.79	-221.21	221.21 S	660.37 W	696.44	251.48	0.45	0.44	-0.60
102	9600.00	3.22	196.49	100.00	9557.62	-226.78	226.78 S	661.95 W	699.72	251.09	0.21	-0.20	1.36
103	9700.00	2.92	195.36	100.00	9657.48	-231.93	231.93 S	663.42 W	702.79	250.73	0.30	-0.30	-1.13
104	9800.00	2.98	206.74	100.00	9757.35	-236.70	236.70 S	665.26 W	706.12	250.41	0.59	0.05	11.38
105	9900.00	2.69	207.24	100.00	9857.22	-241.11	241.11 S	667.50 W	709.71	250.14	0.29	-0.29	0.50
106	10000.00	3.11	198.15	100.00	9957.10	-245.77	245.77 S	669.42 W	713.11	249.84	0.62	0.42	-9.09
107	10100.00	2.70	193.91	100.00	10056.97	-250.63	250.63 S	670.83 W	716.12	249.51	0.46	-0.40	-4.25
108	10200.00	3.37	192.49	100.00	10156.83	-255.79	255.79 S	672.03 W	719.06	249.16	0.67	0.66	-1.41
109	10300.00	3.65	194.65	100.00	10256.64	-261.73	261.73 S	673.47 W	722.54	248.76	0.31	0.28	2.16



Company: EP Energy
Well: Paulsen 2-15C5
Location: Duchesne, UT
Rig: Precision 404

Job Number: _____
Mag Decl.: _____
Dir Driller: _____
MWD Eng: _____

Calculation Method Minimum Curvature
Proposed Azimuth 0.00
Depth Reference KB
Tie Into: Gyro/MWD

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates			Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')	
							N/S (ft)		E/W (ft)	Distance (ft)	Direction Azimuth				
110	10400.00	3.52	188.62	100.00	10356.45	-267.84	267.84	S	674.74	W	725.95	248.35	0.40	-0.13	-6.03
111	10500.00	3.59	179.82	100.00	10456.25	-274.00	274.00	S	675.19	W	728.66	247.91	0.55	0.08	-8.80
112	10600.00	4.04	173.38	100.00	10556.03	-280.63	280.63	S	674.77	W	730.80	247.42	0.62	0.44	-6.44
113	10700.00	4.16	176.25	100.00	10655.78	-287.75	287.75	S	674.13	W	732.97	246.89	0.24	0.12	2.87
114	10800.00	4.01	180.65	100.00	10755.52	-294.86	294.86	S	673.93	W	735.61	246.37	0.34	-0.14	4.41
115	10900.00	3.82	172.01	100.00	10855.29	-301.66	301.66	S	673.51	W	737.98	245.87	0.62	-0.20	-8.65
116	11000.00	3.47	183.89	100.00	10955.09	-307.98	307.98	S	673.25	W	740.35	245.42	0.83	-0.35	11.88
117	11100.00	3.19	193.86	100.00	11054.92	-313.70	313.70	S	674.12	W	743.53	245.05	0.64	-0.28	9.98
118	11200.00	3.26	198.06	100.00	11154.76	-319.10	319.10	S	675.67	W	747.23	244.72	0.24	0.07	4.19
119	11300.00	3.29	191.04	100.00	11254.60	-324.61	324.61	S	677.10	W	750.89	244.39	0.40	0.03	-7.02
120	11400.00	3.34	197.89	100.00	11354.43	-330.20	330.20	S	678.54	W	754.62	244.05	0.40	0.05	6.85
121	11502.00	3.18	197.38	102.00	11456.27	-335.73	335.73	S	680.30	W	758.63	243.73	0.16	-0.16	-0.50
122	11700.00	3.18	197.38	198.00	11653.96	-346.22	346.22	S	683.58	W	766.26	243.14	0.00	0.00	0.00

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1001 Louisiana, Houston, TX, 77002		8. WELL NAME and NUMBER: Paulsen 2-15C5
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0906 FNL 1814 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 15 Township: 03.0S Range: 05.0W Meridian: U		9. API NUMBER: 43013528420000
PHONE NUMBER: 713 997-5038 Ext		9. FIELD and POOL or WILDCAT: ALTAMONT
COUNTY: DUCHESNE		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/23/2015	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input checked="" type="checkbox"/> OTHER	
	OTHER: <input type="text" value="Routine"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Downsize & deepen. See attached for details.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY February 09, 2016		
NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analyst
SIGNATURE N/A	DATE 1/13/2016	

1 General

1.1 Customer Information

Company	CENTRAL DIVISION
Representative	
Address	

1.2 Well Information

Well	PAULSEN 2-15C5		
Project	ALTAMONT FIELD	Site	PAULSEN 2-15C5
Rig Name/No.	WESTERN WELL SERVICE/	Event	WORKOVER LAND
Start date	11/18/2015	End date	11/24/2015
Spud Date/Time	7/13/2014	UWI	PAULSEN 2-15C5
Active datum	KB @5,929.9ft (above Mean Sea Level)		
Afe No./Description	165806/55566 / PAULSEN 2-15C5		

2 Summary

2.1 Operation Summary

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
11/20/2015	6:00 7:30	1.50	MIRU	01		P		TRAVEL TO LOCATION, HSM, R/U COROD RIG SLIDE ROTAFLEX BACK, LOTO ROTAFLEX 6 AM HOT OILER START PUMPING DOWN CSG W/ 2% KCL @ 200 DEG
	7:30 11:00	3.50	MIRU	01		P		R/U COROD RIG, L/D POLISH ROD, ATTEMPT TO UNSEAT PUMP, NO LUCK, P/U POLISH ROD, J-OFF ON OFF TOOL, HAD TO USE WORKOVER RIGS TONGS TO J-OFF, L/D POLISH ROD, 1" EL PONY RODS-1-2', 1-4', 1-6', 1-8'
	11:00 13:30	2.50	WBP	39		P		POOH W/ 910'-18/16" SE COROD, 850'-17/16" SE COROD, 1075'-16/16" SE COROD, 4585'-15/16" SE COROD, 40'-16/16" SE COROD, 950'-17/16" SE COROD, TOP OF ON OFF TOOL
	13:30 14:30	1.00	MIRU	01		P		RDMO COROD RIG, MIRU W/O RIG.
	14:30 16:30	2.00	WLWORK	21		P		MIRU THE PERFORATORS, RIH W 1 9/16" TBG PUNCH LOADED 4SPF, PERF TBG @ 8452'-8453', POOH R/D WL. VERY WAXY & SLOW GOING IN HOLE, PULLED OVER PART WAY OOH
	16:30 17:00	0.50	WOR	18		P		HOT OILER FLUSH TBG W/ 40 BBLS 2% KCL @ 200 DEG
	17:00 18:00	1.00	WOR	16		P		N/D WH, UNLAND TBG, REMOVE 10K B-FLANGE, ADD 6'-2 7/8" N-80 TBG SUB & HANGER, RELAND TBG ON HANGER, N/U BOPS, R/U FLOOR & TBG TONGS, RELEASE TAC, L/D TBG SUB & HANGER PIPE RAMS CLOSED & LOCKED, TBG SHUT IN, CSG TO SALES, SDFN. 2% KCL PUMPED = 600 BBLS DIESEL USED = 120 GAL PROPANE USED = 575 GAL
11/21/2015	6:00 7:30	1.50	WOR	28		P		TRAVEL TO LOCATION, HSM, L/D TUBING 100# SITP & FCP, BLEED OFF HOT OILER FLUSH TBG 2/ 60 BBLS 2% KCL @ 200 DEG

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	7:30 15:00	7.50	WOR	39		P		MIRU TUBOSCOPE TBG SCANNERS, SCAN OOH W/ 257 JTS 2 7/8" L-80 TBG, R/D SCANNERS, L/D 7" TAC, 1 JT 2 7/8" L-80 TBG, 1 JT 2 7/8" L-80 TBG(PERFORATED, 1 JT 2 7/8" L-80 TBG, 1 JT 2 7/8" L-80 TBG 4'-2 7/8" N-80 TBG SUB, 2 7/8" SEAT NIPPLE W/ PUMP STUCK IN, 2'-2 7/8" L-80 TBG, 5 1/2" PBGA, 2 JTS 2 7/8" L-80 TBG, 5 3/4" SOLID NO-GO. (HAD TO KILL TBG SEVERAL TIMES POOH) 257 JTS SCANNED YELLOW BAND BLUE BAND RED BAND LAID DOWN ALL BLUE & RED BAND
	15:00 17:30	2.50	WLWORK	18		P		RIH W/ WL REENTRY GUIDE, 60 JTS 2 7/8" L-80 TBG, EOT @ 2000' CLOSE PIPE RAMS, MIRU THE PERFORATORS RIH W/ 1 11/16" SINKER BARS TAG @ 11583' WLD, BTM PERF @ 11494', POOH R/D WL., TBG SHUT IN, CSG TO SALES, SDFN. 2% KCL PUMPED = 285 BBLS DIESEL USED = 84 GAL PROPANE USED = 325 GAL
11/22/2015	6:00 7:30	1.50	WOR	28		P		TRAVEL TO LOCATION, HSM, P/U TBG & HYDROTESTING TBG 100# SITP & FCP, BLEED OFF HOT OILER FLUSH TBG W/ 30 BBLS 2% KCL @ 200 DEG
	7:30 8:30	1.00	WOR	39		P		EOT @ 2000' POOH W/ 60 JTS 2 7/8" L-80 YELLOW BAND TBG, L/D WL REENTRY GUIDE. X/O TOO 2 3/8" PIPE RAMS
	8:30 18:00	9.50	WOR	39		P		P/U & RIH W/ 2 3/8" BULL PLUG, 2 JTS 2 3/8" L-80 YELLOW BAND TBG, 2 3/8" DESANDER W/ #5 SPIRAL, 2'-2 3/8" N-80 TBG SUB, 2 3/8" SEAT NIPPLE, 4'-2 3/8" N-80 TBG SUB, 4 JTS 2 3/8" L-80 YELLOW BAND TBG, 5"-1/4 SET TAC, 66 JTS 2 7/8" L-80 YELLOW BAND TBG, R/U HYDROTESTER, HYDROTEST TO 8500 PSI W/ 2 7/8" X 2 3/8" EUE X/O SUB, 53 JTS 2 7/8" L-80 YELLOW BAND TBG, PULL HYDROTEST TOOLS, P/U & RIH W/ 6 JTS 2 7/8" TK-900 LINED TBG, P/U TOOLS CONT HYDROTESTING W/ 114 JTS 2 7/8" L-80 YELLOW BAND TBG, PULL TOOLS, P/U 10 JTS 2 7/8" TK-900, CONT HYDROTESTING W/ 18 JTS 2 7/8" L-80 YELLOW BAND, R/D HYDROTESTER, (NO LEAKS BLOWN JTS) CONT IN W/ 59 JTS 2 7/8" L-80 YELLOW BAND TESTED & INSPECTED BY TUBOSCOPE, P/U 6' TBG SUB & HANGER, SET 5" -1/4 SET TAC @ 10575' W/ 20K TENSION, CLOSE PIPE RAMS, TBG SHUT IN, CSG TO SALES, SDFN. 2% KCL PUMPED = 50 BBLS DIESEL USED = 84 GAL PROPANE USED = 75 GAL
11/23/2015	6:00 7:30	1.50	WOR	28		P		TRAVEL TO LOCATION, HSM, SUSPENDED LOADS 100# SITP & FCP, BLEED OFF
	7:30 9:00	1.50	WOR	16		P		ADD 6'-2 7/8" N-80 TBG SUB & HANGER, LAND TBG ON HANGER, N/D BOPS, UNLAND TBG REMOVE TBG SUB & HANGER, ADD 10K B-FLANGE, LAND TBG ON B-FLANGE, N/U WH, HOOK UP FLOWLINE, INSTALL CAPSTRING ASSEMBLY.
	9:00 10:00	1.00	RDMO	02		P		RDMO W/O RIG HOT OILER FLUSH TBG W/ 60 BBLS 2% KCL @ 200 DEG, SPOT 10 GAL CORROSION INHIBITOR.
	10:00 11:00	1.00	MIRU	01		P		MIRU CO ROD RIG

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	11:00 17:30	6.50	WBP	03		P		P/U APS 2"X 1 1/2" X38' RHBC PUMP W/ 2SV, WELD ON PIN, RIH W/ 1365' NEW 16/16" SE COROD, WELD TO 17/16" SE COROD FROM WELL, RIH, POOH & CUT OFF 950'-17/16" SE COROD, 40'-16/16" SE COROD, 2070'-15/16" SE COROD, WELD ON NEW 15/16" SE COROD, EOR @ 1400', CLOSE & PSI UP BAG, DOUBLE CLAMP COROD, TBG SHUT IN, CSG TO SALES, SDFN. 2% KCL PUMPED = 65 BBLS DIESEL USED = 62 GAL PROPANE USED = 75 GAL
11/24/2015	6:00 7:30	1.50	WBP	28		P		TRAVEL TO LOCATION, HSM, SPLICING COROD 100# SITP & FCP, BLEED OFF
	7:30 14:30	7.00	WBP	39		P		EOR @ 1400', CONT RIH SPLICING ON 15/16" & RIH W/ 16/16", 17/16" & 18/16", CUT OFF 90'-18/16" WELD ON PIN, RIH, SPACE W/ 1" EL PONY RODS = 1-4', 1-6', 1-8' P/U NEW 1 1/2" X 40' POLISH ROD, HANG OFF. COROD TAPERS 18/16" SE COROD-820' 17/16" SE COROD-845' 16/16" SE COROD-1072' 15/16" SE COROD-6382' 16/16" SE COROD-1365'
	14:30 15:00	0.50	WBP	18		P		HOT OILER FILL TBG W/ 30 BBLS 2% KCL, PSI TEST TO 500#, STROKE TEST TO 1000#, GOOD TEST, PSI TEST CV TO 1000#, GOOD, PUMP 20 BBLS 2% KCL @ 200 DEG ACROSS FLOWLINE
	15:00 15:30	0.50	RDMO	02		P		RDMO COROD RIG, SLIDE ROTAFLEX IN, CHECK PUMP, TWOTO. 2% KCL PUMPED = 210 BBLS DIESEL USED = 52 GAL PROPANE USED = 150 GAL

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: Paulsen 2-15C5	
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.		9. API NUMBER: 43013528420000
3. ADDRESS OF OPERATOR: 1001 Louisiana, Houston, TX, 77002	PHONE NUMBER: 713 997-5138 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0906 FNL 1814 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 15 Township: 03.0S Range: 05.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 7/25/2016	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Please see attached recompletion procedure along with current and post WBD's.

Approved by the
June 20, 2016
Oil, Gas and Mining

Date: _____

By: Derek Duff

NAME (PLEASE PRINT) Linda Renken	PHONE NUMBER 713 997-5138	TITLE Sr. Regulatory Analyst
SIGNATURE N/A		DATE 6/16/2016

Paulson 2-15 C5 Recom Summary Procedure

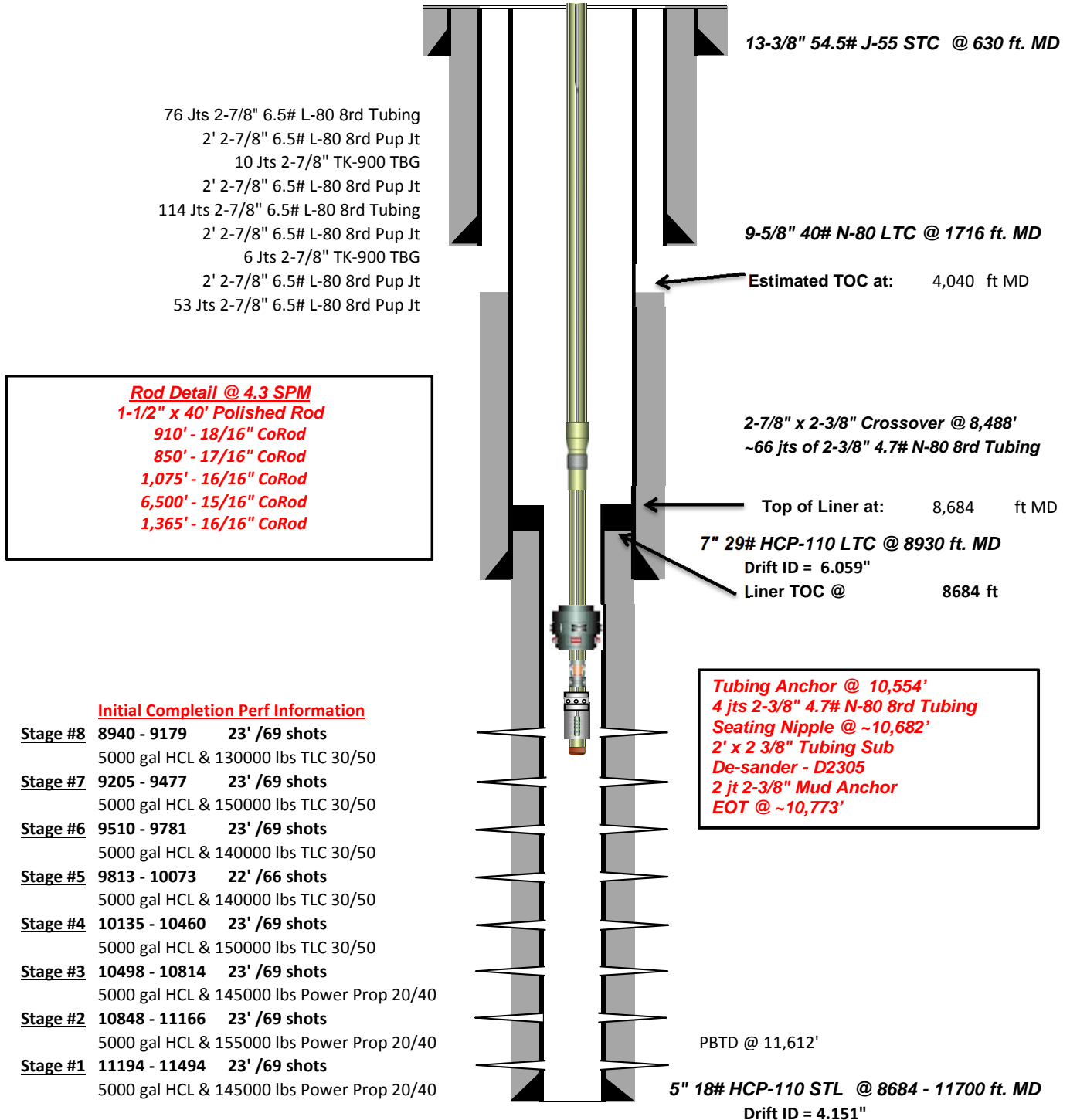
- POOH with rods, pump & tubing. Inspect/Repair/Re-furbish as needed. Replace any bad tubing and joints of rods.
- Set 15k CBP for 5" 18# casing @ 8,905'.
- Stage 1:
 - Perforate new CP70 interval from **8,718' – 8,862'**.
 - Prop Frac Perforations with **80,000** lbs 30/50 prop (w/ **6,000** lbs 100 mesh & **10,000** gals 15% HCl acid (Stage 1 Recom).
- Stage 2:
 - RIH with 7" CBP & set @ 8,585'.
 - Perforate new LGR interval from **8,423' – 8,570'**.
 - Prop Frac Perforations with **80,000** lbs 30/50 prop (w/ **6,000** lbs 100 mesh & **10,000** gals 15% HCl acid (Stage 2 Recom).
- Stage 3:
 - RIH w/ 7" CBP & set @ 8,348'.
 - Perforate new LGR interval from **8,302' – 8,333'**.
 - Acid Frac perforations with **6,000** gals 15% HCl acid (Stage 3 Recom).
- Clean out well drilling up (2) 7" CBPs leaving 5" 15k CBP w/15' CMT @ 8,905'. (PBTD @ 8,890') Top perf BELOW plugs @ 8,940'.
- RIH w/ production tubing and rods.
- Clean location and resume production.



Current Pumping Wellbore Schematic

Well Name: **Paulsen 2-15C5**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, UT**
 Surface Location: **Lat: 40°13'29.635" N Long: 110°26'21.721" W**
 Producing Zone(s): **Wasatch**

Last Updated: **6/16/2016**
 By: **Krug**
 TD: **11,698**
 API: **43013528420000**
 AFE:

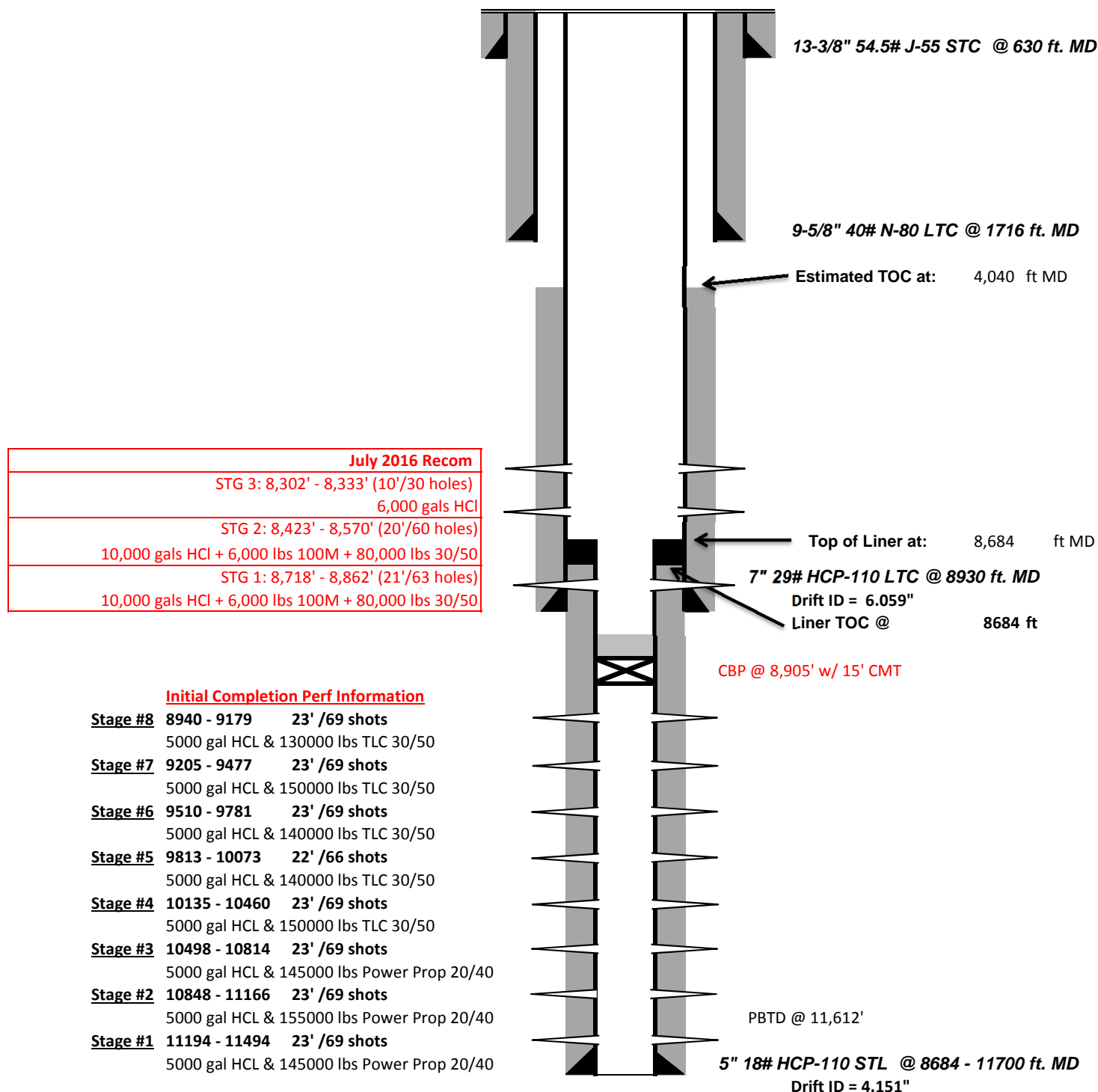




Proposed Recom Wellbore Schematic

Well Name: **Paulsen 2-15C5**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, UT**
 Surface Location: **Lat: 40°13'29.635" N Long: 110°26'21.721" W**
 Producing Zone(s): **Wasatch**

Last Updated: **6/16/2016**
 By: **Tomova**
 TD: **11,698**
 API: **43013528420000**
 AFE:



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: Paulsen 2-15C5	
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.		9. API NUMBER: 43013528420000
3. ADDRESS OF OPERATOR: 1001 Louisiana, Houston, TX, 77002	PHONE NUMBER: 713 997-5138 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0906 FNL 1814 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 15 Township: 03.0S Range: 05.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 7/7/2016	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This is a change of plans to approved Sundry 72428. They want to add a stage 4 to this recompletion and accelerate the start work date to July 7, 2016. Please see attached version 2 recompletion summary along with current and proposed WBD's.

Approved by the
June 30, 2016
Oil, Gas and Mining

Date: _____

By: 

NAME (PLEASE PRINT) Linda Renken	PHONE NUMBER 713 997-5138	TITLE Sr. Regulatory Analyst
SIGNATURE N/A		DATE 6/30/2016

Paulsen 2-15 C5 Recom Summary Procedure V2

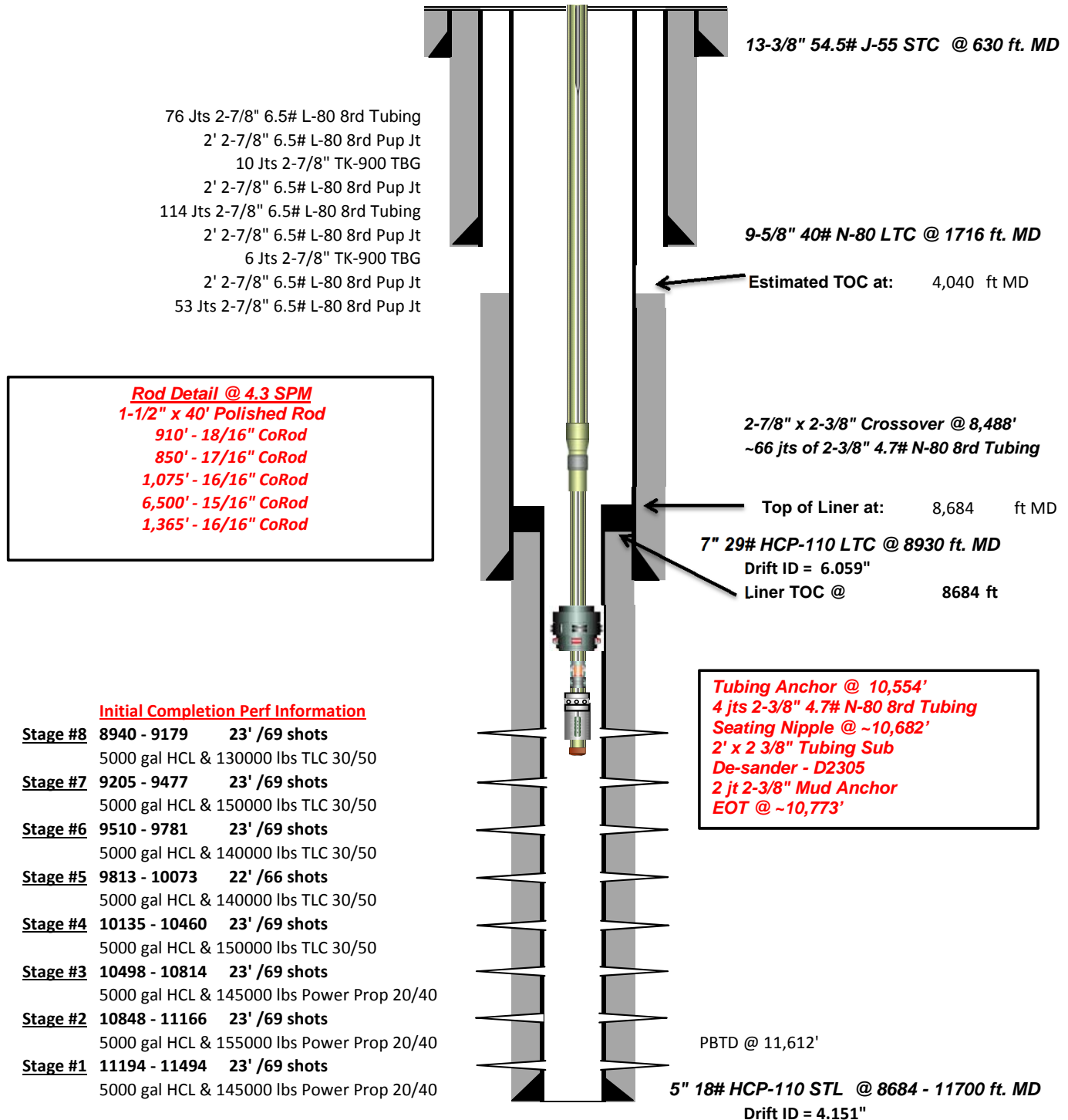
- POOH with rods, pump & tubing. Inspect/Repair/Re-furbish as needed. Replace any bad tubing and joints of rods.
- Set 15k CBP for 5" 18# casing @ 8,905'.
- Stage 1:
 - Perforate new CP70 interval from **8,718' – 8,862'**.
 - Prop Frac Perforations with **80,000** lbs 30/50 prop (w/ **6,000** lbs 100 mesh & **10,000** gals 15% HCl acid (Stage 1 Recom).
- Stage 2:
 - RIH with 7" CBP & set @ 8,585'.
 - Perforate new LGR interval from **8,423' – 8,570'**.
 - Prop Frac Perforations with **80,000** lbs 30/50 prop (w/ **6,000** lbs 100 mesh & **10,000** gals 15% HCl acid (Stage 2 Recom).
- Stage 3:
 - RIH w/ 7" CBP & set @ 8,348'.
 - Perforate new LGR interval from **8,302' – 8,333'**.
 - Acid Frac perforations with **6,000** gals 15% HCl acid (Stage 3 Recom).
- Stage 4:
 - RIH w/ 7" CBP & set @ 8,045'.
 - Perforate new LGR interval from **7,951 – 8,030'**.
 - Acid Frac perforations with **9,000** gals 15% HCl acid (Stage 4 Recom).
- Clean out well drilling up (3) 7" CBPs leaving 5" 15k CBP w/15' CMT @ 8,905'. (PBTD @ 8,890') Top perf BELOW plugs @ 8,940'.
- RIH w/ production tubing and rods.
- Clean location and resume production.



Current Pumping Wellbore Schematic

Well Name: **Paulsen 2-15C5**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, UT**
 Surface Location: **Lat: 40°13'29.635" N Long: 110°26'21.721" W**
 Producing Zone(s): **Wasatch**

Last Updated: **6/16/2016**
 By: **Krug**
 TD: **11,698**
 API: **43013528420000**
 AFE:





Proposed Recom Wellbore Schematic

Well Name: **Paulsen 2-15C5**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, UT**
 Surface Location: **Lat: 40°13'29.635" N Long: 110°26'21.721" W**
 Producing Zone(s): **Wasatch**

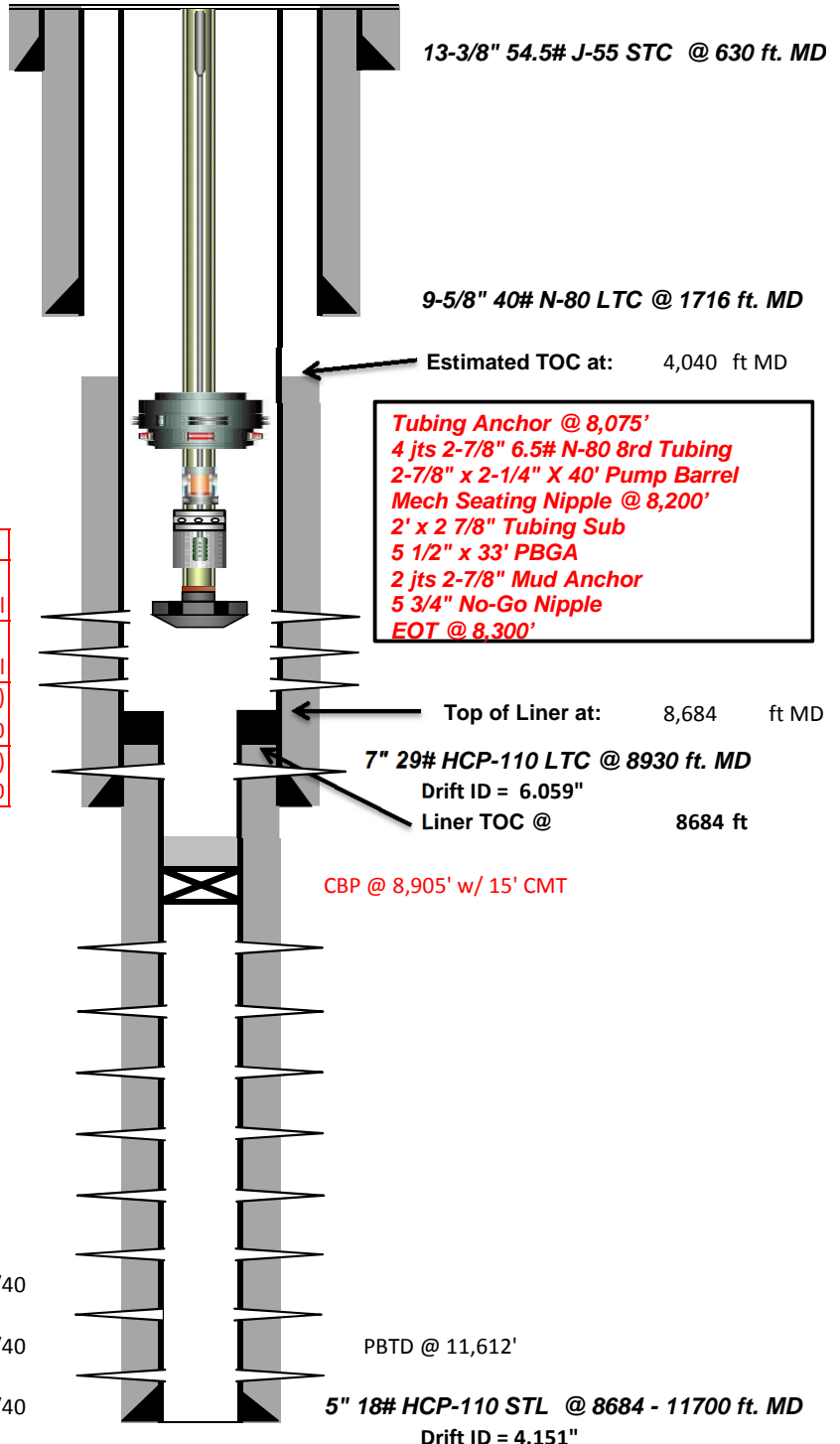
Last Updated: **6/30/2016**
 By: **Weitzel/Tomova**
 TD: **11,698**
 API: **43013528420000**
 AFE:

AL Design Pending

Rod Detail @ 4.3 SPM
1-1/2" x 40' Polished Rod
 ' - 18/16" CoRod
 ' - 17/16" CoRod
 ' - 16/16" CoRod
 ' - 15/16" CoRod
 ' - 16/16" CoRod
 ' - 17/16" CoRod

July 2016 Recom
STG 4: 7,951' - 8,030' (16'/48 holes) 9,000 gals HCl
STG 3: 8,302' - 8,333' (10'/30 holes) 6,000 gals HCl
STG 2: 8,423' - 8,570' (20'/60 holes) 10,000 gals HCl + 6,000 lbs 100M + 80,000 lbs 30/50
STG 1: 8,718' - 8,862' (21'/63 holes) 10,000 gals HCl + 6,000 lbs 100M + 80,000 lbs 30/50

Initial Completion Perf Information		
Stage #8	8940 - 9179	23' /69 shots
5000 gal HCL & 130000 lbs TLC 30/50		
Stage #7	9205 - 9477	23' /69 shots
5000 gal HCL & 150000 lbs TLC 30/50		
Stage #6	9510 - 9781	23' /69 shots
5000 gal HCL & 140000 lbs TLC 30/50		
Stage #5	9813 - 10073	22' /66 shots
5000 gal HCL & 140000 lbs TLC 30/50		
Stage #4	10135 - 10460	23' /69 shots
5000 gal HCL & 150000 lbs TLC 30/50		
Stage #3	10498 - 10814	23' /69 shots
5000 gal HCL & 145000 lbs Power Prop 20/40		
Stage #2	10848 - 11166	23' /69 shots
5000 gal HCL & 155000 lbs Power Prop 20/40		
Stage #1	11194 - 11494	23' /69 shots
5000 gal HCL & 145000 lbs Power Prop 20/40		



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1001 Louisiana, Houston, TX, 77002		8. WELL NAME and NUMBER: Paulsen 2-15C5
PHONE NUMBER: 713 997-5138 Ext		9. API NUMBER: 43013528420000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0906 FNL 1814 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 15 Township: 03.0S Range: 05.0W Meridian: U		9. FIELD and POOL or WILDCAT: ALTAMONT
		COUNTY: DUCHESNE
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 8/27/2016	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

We have swab tested stages 2 – 4 of the July 2016 recom on the attached WBDs. We need to squeeze stage 3 because it only looks to be producing water. There are 3 WBDs in the attached PDF. • Page 1 is the current WBD with all 4 stages open. • Page 2 is the proposed WBD after squeezing stage 3. We would like to squeeze stage 3 in the next few days. o The cement squeeze will be pumped on stage 3 (8,308' – 8,333'), and the retainer will be left @ 8,250' and CBP @ 8,360'. o The artificial lift equipment will be installed and Stage 4 will be tested for 1 to 6 weeks. • Page 3 is the proposed WBD after drilling out the squeeze. This will take place in 1 to 6 weeks. o The production equipment will be removed. o The squeeze will be drilled out and tested to 1,000 psi. o The artificial lift equipment will be re-run to produce stages 1, 2, and 4 of the July 2016 recom.

Approved by the
August 25, 2016
Oil, Gas and Mining

Date: _____
By: Derek Duff

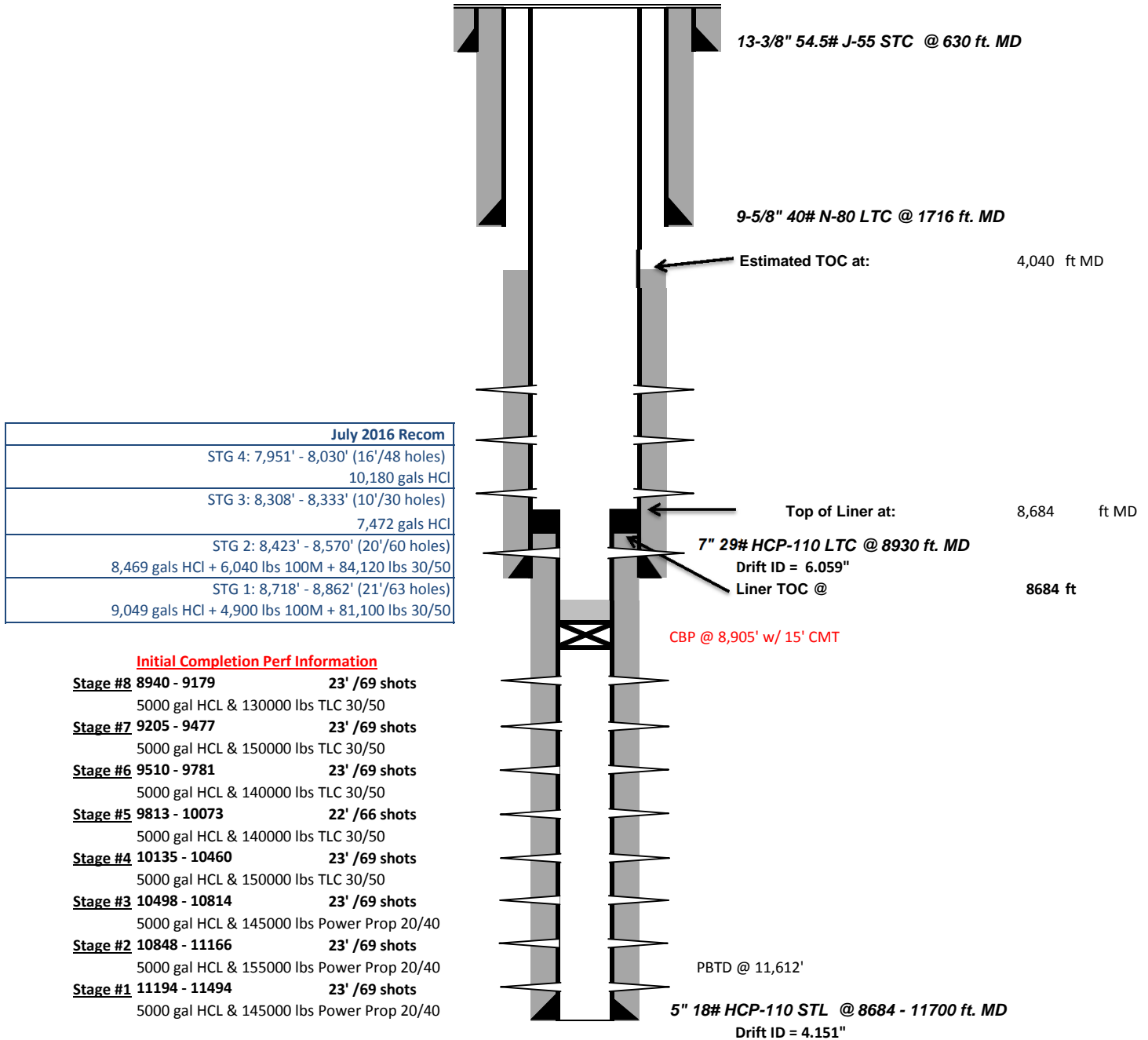
NAME (PLEASE PRINT) Linda Renken	PHONE NUMBER 713 997-5138	TITLE Sr. Regulatory Analyst
SIGNATURE N/A	DATE 8/25/2016	



Current Recom Wellbore Schematic

Well Name: **Paulsen 2-15C5**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, UT**
 Surface Location: **Lat: 40°13'29.635" N Long: 110°26'21.721" W**
 Producing Zone(s): **Wasatch**

Last Updated: **8/25/2016**
 By: **Krug**
 TD: **11,698**
 API: **43013528420000**
 AFE:





Proposed Recom Squeeze Wellbore Schematic (During Extended Stage 4 Test)

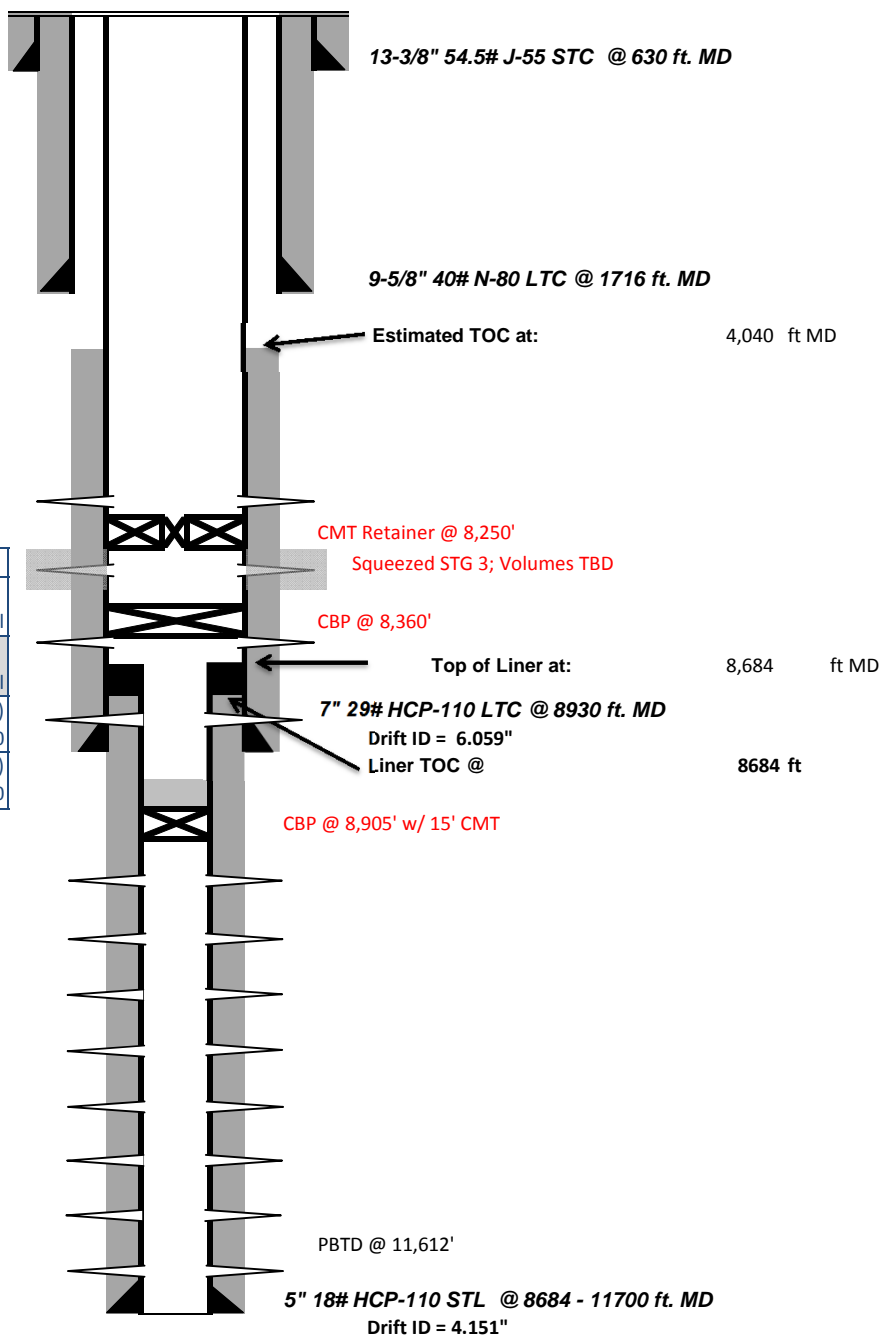
Well Name: **Paulsen 2-15C5**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, UT**
 Surface Location: **Lat: 40°13'29.635" N Long: 110°26'21.721" W**
 Producing Zone(s): **Wasatch**

Last Updated: **8/25/2016**
 By: **Krug**
 TD: **11,698**
 API: **43013528420000**
 AFE:

July 2016 Recom	
STG 4: 7,951' - 8,030' (16'/48 holes)	10,180 gals HCl
SQUEEZED STG 3: 8,308' - 8,333' (10'/30 holes)	7,472 gals HCl
STG 2: 8,423' - 8,570' (20'/60 holes)	8,469 gals HCl + 6,040 lbs 100M + 84,120 lbs 30/50
STG 1: 8,718' - 8,862' (21'/63 holes)	9,049 gals HCl + 4,900 lbs 100M + 81,100 lbs 30/50

Initial Completion Perf Information

Stage #8 8940 - 9179 23' /69 shots
 5000 gal HCL & 130000 lbs TLC 30/50
Stage #7 9205 - 9477 23' /69 shots
 5000 gal HCL & 150000 lbs TLC 30/50
Stage #6 9510 - 9781 23' /69 shots
 5000 gal HCL & 140000 lbs TLC 30/50
Stage #5 9813 - 10073 22' /66 shots
 5000 gal HCL & 140000 lbs TLC 30/50
Stage #4 10135 - 10460 23' /69 shots
 5000 gal HCL & 150000 lbs TLC 30/50
Stage #3 10498 - 10814 23' /69 shots
 5000 gal HCL & 145000 lbs Power Prop 20/40
Stage #2 10848 - 11166 23' /69 shots
 5000 gal HCL & 155000 lbs Power Prop 20/40
Stage #1 11194 - 11494 23' /69 shots
 5000 gal HCL & 145000 lbs Power Prop 20/40





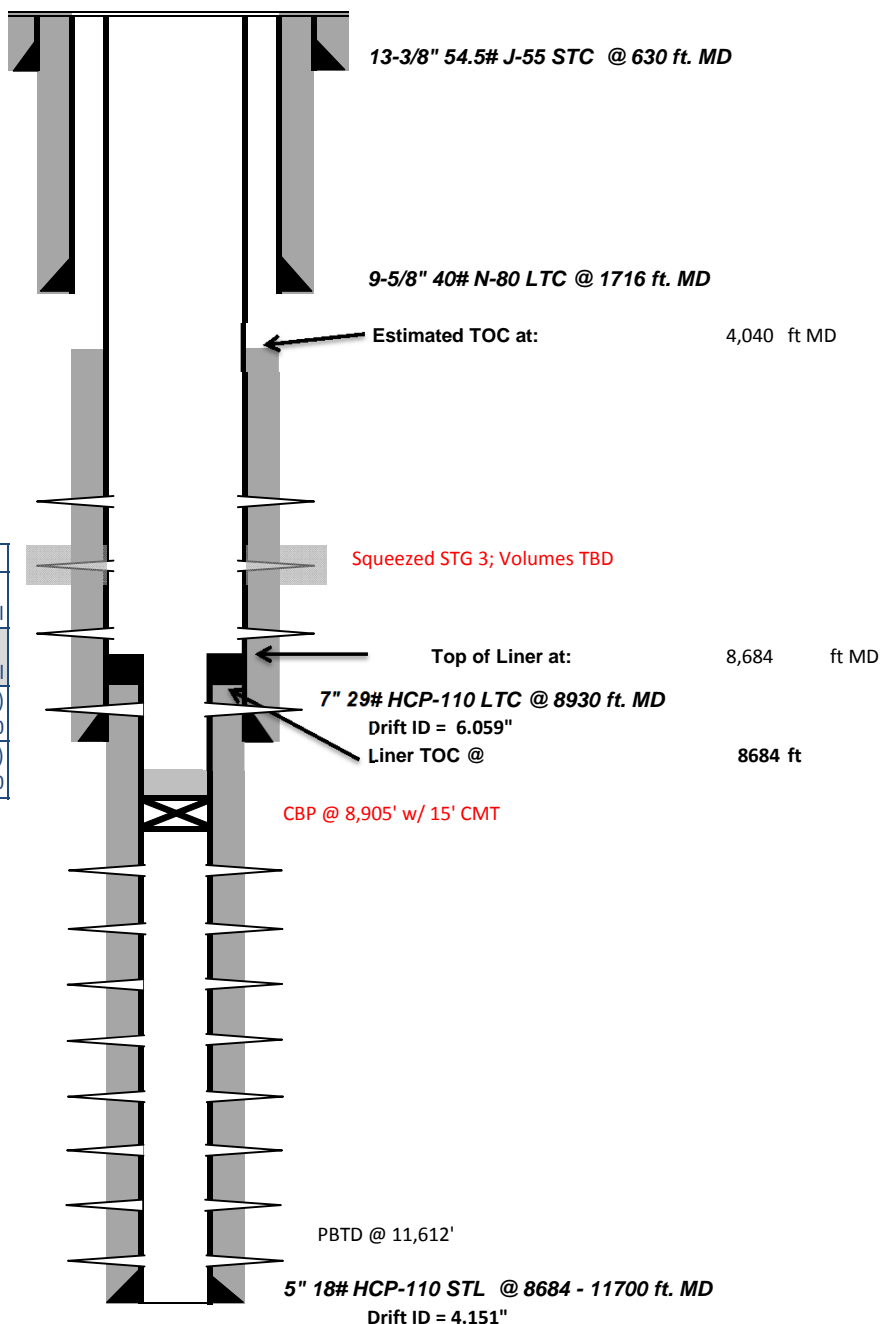
Proposed Future Recom Wellbore Schematic (After Extended Stage 4 Test)

Well Name: **Paulsen 2-15C5**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, UT**
 Surface Location: **Lat: 40°13'29.635" N Long: 110°26'21.721" W**
 Producing Zone(s): **Wasatch**

Last Updated: **8/25/2016**
 By: **Krug**
 TD: **11,698**
 API: **43013528420000**
 AFE:

July 2016 Recom	
	STG 4: 7,951' - 8,030' (16'/48 holes) 10,180 gals HCl
SQUEEZED	STG 3: 8,308' - 8,333' (10'/30 holes) 7,472 gals HCl
	STG 2: 8,423' - 8,570' (20'/60 holes) 8,469 gals HCl + 6,040 lbs 100M + 84,120 lbs 30/50
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Stage #1 11194 - 11494	23' /69 shots 5000 gal HCL & 145000 lbs Power Prop 20/40



STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

RECOMPLETION

AMENDED REPORT ☐ FORM 8
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME

8. WELL NAME and NUMBER:

9. API NUMBER:

10 FIELD AND POOL, OR WILDCAT

11. QTR/QTR, SECTION, TOWNSHIP, RANGE,
MERIDIAN:

U.S.B. & M.

12. COUNTY

13. STATE

UTAH

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☐ OTHER _____b. TYPE OF WORK: NEW WELL ☐ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER _____

2. NAME OF OPERATOR:

3. ADDRESS OF OPERATOR:

CITY

STATE

ZIP

PHONE NUMBER:

4. LOCATION OF WELL (FOOTAGES)

AT SURFACE:

AT TOP PRODUCING INTERVAL REPORTED BELOW:

AT TOTAL DEPTH:

14. DATE SPUDDED:

15. DATE T.D. REACHED:

16. DATE COMPLETED:

ABANDONED ☐READY TO PRODUCE ☐

17. ELEVATIONS (DF, RKB, RT, GL):

18. TOTAL DEPTH: MD

TVD

19. PLUG BACK T.D.: MD

TVD

20. IF MULTIPLE COMPLETIONS, HOW MANY? *

21. DEPTH BRIDGE MD

PLUG SET:

TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

23.

WAS WELL CORED?

NO ☐YES ☐

(Submit analysis)

WAS DST RUN?

NO ☐YES ☐

(Submit report)

DIRECTIONAL SURVEY?

NO ☐YES ☐

(Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A)				
(B)				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL

29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☐ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER: _____

30. WELL STATUS:

31. INITIAL PRODUCTION**INTERVAL A (As shown in item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)**33. SUMMARY OF POROUS ZONES (Include Aquifers):**

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)

35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) _____ TITLE _____

SIGNATURE _____ DATE _____

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

Attachment to Well Completion Report

Form 8 Dated: _

Well Name: _

Items #27 and #28 Continued

27. Perforation Record

Interval (Top/Bottom-MD)	Hole Size	No. of Holes	Perf. Status

28. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material

CENTRAL DIVISION

ALTAMONT FIELD
PAULSEN 2-15C5
PAULSEN 2-15C5
RECOMPLETE LAND

Operation Summary Report

Disclaimer: Although the information contained in this report is based on sound engineering practices, the copyright owner(s) does (do) not accept any responsibility whatsoever, in negligence or otherwise, for any loss or damage arising from the possession or use of the report whether in terms of correctness or otherwise. The application, therefore, by the user of this report or any part thereof, is solely at the user's own risk.

1 General

1.1 Customer Information

Company	CENTRAL DIVISION
Representative	
Address	

1.2 Well Information

Well	PAULSEN 2-15C5		
Project	ALTAMONT FIELD	Site	PAULSEN 2-15C5
Rig Name/No.		Event	RECOMPLETE LAND
Start date	7/8/2016	End date	7/28/2016
Spud Date/Time	7/13/2014	UWI	PAULSEN 2-15C5
Active datum	KB @5,929.9usft (above Mean Sea Level)		
Afe No./Description	166937/56324 / PAULSEN 2-15C5		

2 Summary

2.1 Operation Summary

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
7/14/2016	17:00 18:30	1.50	MIRU	01		P		HELD SAFETY MEETING ON RIGGING UP. SLID ROTA-FLEX, MIRU CO-ROD RIG WHILE PUMPING 60 BBLS DOWN CSG.
	18:30 20:30	2.00	PRDHEQ	18		P		UNABLE TO UNSEAT WHILE PUMPING 70 BBLS DOWN CSG, RELEASED FROM ON-OFF TOOL.
	20:30 23:00	2.50	PRDHEQ	39		P		TOOH W/ 910'-18/16", 850'-17/16", 1075'-16/16", 6500'-15/16", 1365'-16/16" AND ON OFF TOOL. LEFT WELL OPEN TO TREATER. SDFN.
7/15/2016	6:00 7:30	1.50	RDMO	28		P		CREW TRAVEL HELD SAFETY MEETING ON RIGGING DOWN FILLED OUT AND REVIEW JSA.
	7:30 8:00	0.50	RDMO	02		P		RD CO ROD RIG,
	8:00 10:30	2.50	MIRU	01		P		MIRU SERVICE RIG. WHILE PUMPING 100 BBLS 2% KCL DOWN CSG.
	10:30 12:30	2.00	WLWORK	21		P		RU WIRELINE RIH PERFORATED TBG 10604' RD WIRELINE. WHILE PUMPING 100 BBLS 2% KCL DOWN CSG.
	12:30 14:30	2.00	WHDTRE	16		P		FLUSHED TBG W/ 60 BBLS 2% KCL. CSG BARRIER 1 FLUID, TBG BARRIER 1 FLUID, BARRIER 2 TIW VALVE. ND WELLHEAD. INSTALLED 4'-2 7/8 PERF SUB AND HANGER W/ 2WC LANDED TBG. NU BOPE AND PRESS TEST @ 400 PSI LOW AND 4000 PSI HIGH.
	14:30 18:30	4.00	WOR	39		P		RELEASED ARROWSET TPYE TAC, TAC WOULD COME UP BUT NOT DOWN. PULLED TAC OUT OF LINER W/ 60-JTS 2 7/8 L-80 EUE TBG, RU SCANNERS TOOH 70- JTS 2 7/8 L-80 EUE TBG, RIH W/ 60-JTS 2 7/8 L-80 EUE TBG CONTINUED SCANNING TBG. TOOH W/ 77-JTS 2 7/8 L-80 EUE TBG. TTL 137-JTS 2 7/8 L-80 EUE TBG, 124-YELLOW, 12-BLUE AND 1-RED. EOT @ 6320'. CLOSED IN WELL. TBG BARRIER 1 TIW VALVE, BARRIER 2 NIGHT CAP. CLOSED AND LOCKED PIPE RAMS LEFT CSG OPEN TO TREATER.
7/16/2016	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON SCANNING TUBING. FILLED OUT AND REVIEWED JSA.
	7:30 11:00	3.50	WOR	39		P		50 TSIP 50 CSIP. BLED DOWN WELL. RU SCANNERS CONTINUE SCANNING TBG. SCANNED 123-JTS 2 7/8 L-80 EUE TBG 110-YELLOW, 11-BLUE, 2-RED. RD SCANNERS LD 66-JTS 2 3/8 L-80 EUE TBG, 5" ARROWSET TPYE TAC, 4-JTS 2 3/8 L-80 EUE TBG AND BHA.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	11:00 15:30	4.50	WLWORK	26		P		RU WIRLINE TESTED BOP AND LUBRICATOR @ 4000 PSI. RIH W/ 5.90 GR/JB TO LINER TOP @ 8684'. RIH W/ 4.00 GR/JB TO 8927'. RIH SET 15K MAGNUM CBP @ 8905', RIH DUMP BAILED 15' CEM. RD WIRELINE. CLOSED IN WELL BARRIER 1 CBP. BARRIER 2 CLOSED AND LOCKED BLIND RAMS. SDFN.
7/17/2016	6:00 6:00	24.00	WOR	18		P		NO ACTIVITY
7/18/2016	6:00 6:00	24.00	WOR	18		P		NO ACTIVITY
7/19/2016	6:00 8:30	2.50	WHDTRE	28		P		CREW TRAVEL HELD SAFETY MEETING ON NIPPLING DOWN BOPE. FILLED OUT AND REVIEWED JSA.
	8:30 14:30	6.00	WHDTRE	16		P		INSTALLED HANGER W/ TWC IN TBG HEAD. BARRIER 1 CBP, BARRIER 2 TWC. ND BOP. NU 7" MANUAL FRAC VALVE. AND SHELL TESTED @ 8500 PSI. PRESSURE TEST CSG @ 8000 PSI FOR 1/2 HR. NIPPLE UP 7" HCR, GOAT HEAD, 7" HCR AND WIRELINE ADAPTER AND PRESSURE TEST FRAC VALVES @ 9500 PSI. PRESSURE TEST FLOWBACK LINES @ 8000 PSI. HELD.
	14:30 16:30	2.00	STG01	21		P		RU WIRELINE. RIH PERFORATED STAGE # 1 FROM 8862' TO 8718'. ALL PERFS CORRELATED TO PERFORATORS RADIAL SECTOR CBL, GAMMA RAY, CCL LOG RUN #1 DATED 08/08/14. 21 NET FT. 63 SHOTS. USING 3 1/8" GUNS, 22.7 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 1000 PSI. FINAL PRESSURE 600 PSI. RD WIRELINE SHUT IN WELL, CLOSED AND LOCKED BARRIER 1 LMV, BARRIER 2 UMOV. CLOSED CSG VALVES AND INSTALLED NIGHT CAPS.
7/20/2016	6:00 6:30	0.50	SITEPRE	28		P		HELD SAFETY MEETING ON HEATING FRAC WATER. FILLED OUT AND REVIEW JSA
	6:30 16:30	10.00	SITEPRE	18		P		HEAT 9000 BBLS WATER
7/21/2016	9:00 19:00	10.00	MIRU	42		P		HELD SAFETY MEETING ON MOVING FRAC EQUIPMENT. FILLED OUT AND REVIEWED JSA, MIRU FRAC EQUIPMENT.
7/22/2016	6:00 7:30	1.50	STG01	28		P		CREW TRAVEL HELD SAFETY MEETING ON PUMPING HIGH PRESSURE. FILLED OUT AND REVIEWED JSA.
	7:30 8:30	1.00	STG01	18		P		SET POPOFF @ 8335 PSI. PRESSURE TEST LINES @ 9000 psi
	8:30 11:00	2.50	STG01	35		P		OPENED UP WELL W/ 450 PSI. BREAK DOWN STAGE #1 PERFS @ 3846 PSI, 9.7 BPM. TREATED PERFS W/ 9049 GALS 15% HCL ACID. FLUSHED TO BTM PERF W/ 331 BBLS. AVG RATE 39.9 BPM. MAX RATE 42. AVG PRESS 3740 PSI, MAX PRESS 3954 PSI. STEP RATE TEST SHOWED 23 PERFS OPEN. ISIP 2347, F.G. .700. 5 MIN 2020 PSI, 10 MIN 1925 PSI, 15 MIN 1531 PSI. PUMPED 4900 LBS 100 MESH IN 1/2 PPG STAGE AND 81,100 LBS WHITE 30/50. IN .5#, 1#, 1.75# AND 2.5# STAGES. AVG RATE 75 BPM, MAX RATE 76.3 BPM. AVG PRESS 3855 PSI, MAX PRESS 4589 PSI. I.S.I.P. 3027 PSI. F.G. .777, 5 MIN 2480 PSI, 10 MIN 2253 PSI. SHUT WELL IN 3479 BBLS TO RECOVER. TURNED WELL OVER TO WIRELINE.
	11:00 13:30	2.50	STG02	21		P		RU WIRELINE. RIH SET CBP @ 8585' W/ 1300 PSI PERFORATED STAGE # 2 FROM 8570' TO 8423'. ALL PERFS CORRELATED TO PERFORATORS RADIAL SECTOR CBL, GAMMA RAY, CCL LOG RUN #1 DATED 08/08/14. 20 NET FT. 60 SHOTS. USING 3 1/8" GUNS, 22.7 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 1300 PSI. FINAL PRESSURE 1000 PSI. RD WIRELINE. TURNED WELL OVER TO FRAC CREW.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	13:30 15:30	2.00	STG02	35		P		OPENED UP WELL W/ 400 PSI. BREAK DOWN STAGE # 2 PERFS @ PSI, 9.7 BPM. TREATED PERFS W/ 8469 GALS 15% HCL ACID. FLUSHED TO BTM PERF W/ 323 BBLS. AVG RATE 39.9 BPM. MAX RATE 40.1. AVG PRESS 2347 PSI, MAX PRESS 2635 PSI. STEP RATE TEST SHOWED 57 PERFS OPEN. ISIP 1820, F.G. .647. 5 MIN 1608 PSI, 10 MIN 1509 PSI, 15 MIN 1353 PSI. PUMPED 6040 LBS 100 MESH IN 1/2 PPG STAGE AND 84120 LBS WHITE 30/50. IN .5#, 1#, 1.75# AND 2.5# STAGES. AVG RATE 75.4 BPM, MAX RATE 77.7 BPM. AVG PRESS 3145 PSI, MAX PRESS 3622 PSI. I.S.I.P. 2825 PSI. F.G. .765, 5 MIN 2454 PSI, 10 MIN 2247 PSI. SHUT WELL IN 3329 BBLS TO RECOVER. TURNED WELL OVER TO WIRELINE.
	15:30 17:30	2.00	STG03	21		P		RU WIRELINE. RIH SET CBP @ 8348' W/ 1700 PSI PERFORATED STAGE # 3 FROM 8333' TO 8308'. ALL PERFS CORRELATED TO PERFORATORS RADIAL SECTOR CBL, GAMMA RAY, CCL LOG RUN #1 DATED 08/08/14. 10 NET FT. 30 SHOTS. USING 3 1/8" GUNS, 22.7 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 1700 PSI. FINAL PRESSURE 600 PSI. RD WIRELINE TRNED WELL OVER TO FRAC CREW.
	17:30 18:30	1.00	STG03	35		P		OPENED WELL W/ 200 PSI. BREAK DOWN STAGE # 3 PERFS @ 2375 PSI 40.6 BPM. STEP RATE TEST SHOWED 21 OPEN PERFS. I.S.I.P. 1179 PSI F.G. .575. 5 MIN 720 PSI, 10 MIN 643 PSI, 15 MIN 603 PSI. TREATED PERFS W/ 7472 GALS 15% HCL ACID. DROPPED 36 BIO BALLS. 18 EVERY 1700 GALS. AVG RATE 38.8 BPM, MAX RATE 44.5 BPM. AVG PRESS 2819 PSI, MAX PRESS 7889 PSI. I.S.I.P. 1367 PSI, F.G. .597. 5 MIN 903 PSI, 10 MIN 785 PSI, SHUT IN WELL. 573 BBLS TO RECOVER. TURNED WELL OVER TO WIRELINE.
	18:30 21:00	2.50	STG04	21		P		RU WIRELINE. RIH SET CBP @ 8045' W/ 500 PSI PERFORATED STAGE # 4 FROM 8030' TO 7951'. ALL PERFS CORRELATED TO PERFORATORS RADIAL SECTOR CBL, GAMMA RAY, CCL LOG RUN #1 DATED 08/08/14. 16 NET FT. 48 SHOTS. USING 3 1/8" GUNS, 22.7 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 500 PSI. FINAL PRESSURE 300 PSI. SHUT IN WELL, BARRIER 1 LMV, BARRIER 2 UMV.. CLOSED CSG VALVES AND INSTALLED NIGHT CAPS.
7/23/2016	6:00 9:00	3.00	STG04	42		P		WAIT ON FRAC CREW.
	9:00 10:00	1.00	STG04	28		P		HELD SAFETY MEETING ON PRESSURE TESTING LINES. FILLED OUT AND REVIEWED. STARTED FRAC EQUIPMENT.
	10:00 10:40	0.67	STG04	35		P		OPENED WELL W/ 470 PSI. BREAK DOWN STAGE # 4 PERFS @ 3682 PSI 20.3 BPM. STEP RATE TEST SHOWED 24 OPEN PERFS. I.S.I.P. 1283 PSI F.G. .594. 5 MIN 703 PSI, 10 MIN 520 PSI, 15 MIN 420 PSI. TREATED PERFS W/ 10180 GALS 15% HCL ACID. DROPPED 60 BIO BALLS. 20 EVERY 2250 GALS. AVG RATE 41.5 BPM, MAX RATE 53.5 BPM. AVG PRESS 2448 PSI, MAX PRESS 7623 PSI. I.S.I.P. 1324 PSI @ 10:30, F.G. .594. 5 MIN 1136 PSI, 10 MIN 993 PSI, SHUT IN WELL. 557 BBLS TO RECOVER.
	10:40 13:30	2.83	RDMO	02		P		RIG DOWN FRAC EQUIPMENT AND MOVE OFF LOCATION. ND WIRELINE FLANGE, TOP HCR VALVE AND GOAT HEAD, LEFT LMV BARRIER 1, UMV BARRIER 2, INSTALLED NIGHT CAP, BARRIER 3.
	13:30 15:30	2.00	FB	19		P		OPENED WELL @ 13:30. 450 PSI ON 12/64 CHOKE. WELLDIED @ 3:30 CLOSED IN FLOW LINE. CLOSED ALL VALVES.
7/24/2016	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON NIPPLING DOWN FRAC VALVE. FILLED OUT AND REVIEWED JSA.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	7:30 11:30	4.00	WHD TRE	16		P		250 CSIP OPENED WELL. FLOW@ 10 BBLS H2O. WELLDIED. BARRIER 1 FLUID, BARRIER 2 LMV. ND HCR VALVE, LEAVING 7" MANUAL . NU 5M BOP, 5M HYDRIL AND PRESSURE TEST LOW 250 PSI, HIGH 4800 PSI.
	11:30 13:00	1.50	WOR	06		P		PUMPED 100 BBLS 10# BRINE. @ 3 BPM @ 1200 PSI. ISIP 750 PSI. 15 MIN 200 PSI. OPENED WELL FLOWED BACK 20 BBLS WELL DIED.
	13:00 15:30	2.50	WOR	10		P		TALLIED AND RIH W/ 6" BIT, BIT SUB AND 247-JTS 2 7/8 L-80 EUE TBG. TAGGED CBP @ 8045 (8050' TBG TALLY), RU POWER SWIVEL, STIFF ARM TO LONG, TOO H W/ 8-JTS 2 7/8 L-80 EUE TBG, CLOSED IN WELL, CSG BARRIER 1 PIPE RAMS, BARRIER 2 HYDRIL, TBG BARRIER 1 TIW VALVE, BARRIER 2 NIGHT CAP, CLOSED CSG VALVES AND INSTALLED NIGHT CAPS.
7/25/2016	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON DRILLING PLUGS FILLED OUT AND REVIEWED JSA.
	7:30 8:30	1.00	WOR	39		P		350 TSIP, 350 CSIP. BLED DOWN WELL, RIH W/ 8 JTS 2 7/8 L-80 RURT BG TAGGED CBP @ 8050' RU POWER SWIVEL.
	8:30 16:00	7.50	WOR	10		P		BREAK CIRCULATION DRILLED OUT CBP SET @ 8050' CIRCULATE TBG CLEAN, CONTINUED IN DRILLED OUT CBP @ 8353 CIRCULATE TBG CLEN., CONTINUED IN TAGGED REMAINS OF CBP AND SAND @ 8560' FINISHED DRILLING CBP AND WASHED SAND DOWN TO CBP @ 8590' DRILLED OUT CBP. CONITINUE IN FINISHED DRILLING CBP ON LINER TOP @ 8684' CIRCULATE TBG CLEAN.
	16:00 17:00	1.00	WOR	39		P		RD POWER SWIVEL. TOO H W/ 26-JTS 2 7/8 L-80 EOT @ 7848'. CLOSED IN WELL, CSG BARRIER 1 PIPE RAMS, BARRIER 2 HYDRIL, TBG BARRIER 1 TIW VALVE, BARRIER 2 NIGHT CAP, CLOSED CSG VALVES AND INSTALLED NIGHT CAPS. SDFN.
7/26/2016	6:00 8:30	2.50	WOR	28		P		CREW TRAVEL. HELD SAFETY MEETING ON POWER SWIVEL. FILLED OUT AND REVIEWED JSA.
	8:30 10:00	1.50	WOR	06		P		0 TSIP, 150 CSIP. OPENED WELL CSG FLOW @ 25 PSI 1 BPM. CIRCULATE WELL W/ 300 BBLS 10# BRINE. WELL DIED.
	10:00 15:00	5.00	WOR	39		P		TOOH W/ 240-JTS 2 7/8 L-80 EUE TBG. BIT SUB AND 6" BIT, RIH W/ 4 1/8 BIT, BIT SUB, 10-JTS 2 3/8 L-80 EUE TBG, X-OVER AND 253-JTS 2 7/8 L-80 EUE TBG. TAGGED LINER TOP @ 8689. RU POWER SWIVEL.
	15:00 18:00	3.00	WOR	10		P		PUMPED 50 BBLS BREAK REVERSE CIRCULATION. DRILLED REMAINS OF CBP, CONTINUED RIH TAGGED SAND @ @ 8865' WASHED SAND DOWN TO 8895' TBG PLUGGED UP. UNABLE TO PUM[P DOWN TBG @ 2500 PSI, RD POWER SWIVEL
	18:00 19:00	1.00	WOR	39		P		LD 13-JTS 2 7/8 L-80 EUE TBG. CLOSED IN WELL. CSG BARRIER 1 PIPE RAMS, BARRIER 2 HYDRIL, TBG BARRIER 1 TIW VALVE, BARRIER 2 NIGHT CAP, CLOSED CSG VALVES AND INSTALLED NIGHT CAPS. SDFN.
7/27/2016	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY ON PERFORATING TUBING. FILLED OUT AND REVIEWED JSA.
	7:30 9:30	2.00	WLWORK	21		P		0 TSIP, 100 CSIP OPENED CSG WELL FLOWING 1 BPM @ 25 PSI. RU WIRELINE RIH UNABLE TO GET PAST 6885'. PUT 500 PSI ON TBG. PERFORATED TBG @ 6815' RD WIRELINE. CIRCULATE WELL W/ 250 BBLS 10 # BRINE.
	9:30 12:00	2.50	WOR	39		P		TOOH W/240-JTS 2 7/8 L-80 EUE TBG, X-OVER, 10-JTS 2 3/8 L-80 EUE TBG, BIT SUB AND 4 1/8 BIT. BTM 5-JTS 2 3/8 PLUGGED W/ SAND,

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	12:00 16:00	4.00	WOR	39		P		RIH W/ 5 3/4 NO-GO, 2-JTS 2 7/8 L-80 EUE TBG, 5 1/2 PBGA, 4' 2 7/8 N-80 EUE TBG SUB, 2'-2 7/8 N-80 EUE TBG SUB, MECH SN, 2 7/8" X 2 1/4" X 40' PUMP BARREL, 4' 2 7/8 N-80 EUE TBG SUB, 4-JTS 2 7/8 L-80 EUE TBG, 7" TAC, 38-JTS 2 7/8 L-80 EUE TBG, 2'-2 7/8 N-80 EUE TBG SUB, 6-JTS 2 7/8 L-80 TK-900 EUE TBG, 2'-2 7/8 N-80 EUE TBG SUB, 114-JTS 2 7/8 L-80 EUE TBG, 2'-2 7/8 N-80 EUE TBG SUB, 10-JTS 2 7/8 L-80 TK-900 EUE TBG, 2'-2 7/8 N-80 EUE TBG SUB AND 77-JTS 2 7/8 L-80 EUE TBG,
	16:00 18:30	2.50	WOR	16		P		SET TAC @ 8032', SN 8209', EOT @ 8313'. TEMPORARILY LANDED T BG W/ 4' 27/8 TBG SUB AND HANGER. 8' TBG SUB W/ TIW VALVE. CSG BARRIER 1 KILL FLUID, BARRIER 2 HANGER, TBG BARRIER 1 KILL FLUID, BARRIER 2 TIW VALVE. ND HYDRIL, ND BOPAND FRAC VALVE.REMOVED SUBS AND HANGER. NU B-FLANGE, WELLHEAD AND FLOWLINES. CLOSED IN WELL CLOSED ALL CSG AND TBG VALVE.
	18:30 20:00	1.50	RDMO	02		P		RD RIG AND GOT READY TO MOVE.
7/28/2016	6:00 7:30	1.50	MIRU	28		P		CREW TRAVEL. HELD SAFETY MEETING ON RIGGING UP CO-ROD RIG. FILLED OUT AND REVIEWED JSA.
	7:30 8:00	0.50	MIRU	01		P		MIRU CO-ROD RIG.
	8:00 10:30	2.50	PRDHEQ	06		P		FLUSHED TBG W/ 50 BBLS KCL, 10 BBLS BRINE. DROPPED STANDING VALVE PUMPED 35 BBLS 10# BRINE, 10 GAL CORROSION INHIBITORAND 15 BBLS OF BRINE. STANDING VALVE DIDN'T SEAT.
	10:30 15:30	5.00	INARTLT	39		P		RIH W/ 2 1/4" X 5" PLUNGER, 40' POLISH ROD, STAB SUB, 1365'- 15/16", 6382'-15/16" CUT OFF 2748'-15/16" LEAVING 3904' IN WELL.MADE WELD, CONTINUED RIH W/ 1072'-16/16", 845'-17/16", 820'-18/16, SPACED OUT WELL W/ 1-25' EL ROD,1-8', 1-6', 1-4',1-2' X 1" SUBS. PU POLISH ROD,FILLED TUBING W/ 4 BBLS PRESSURE AND STROKE TEST TBG AND PUMP @1000 PSI HELD.
	15:30 16:30	1.00	RDMO	02		P		RD CO-ROD RIG. SLID IN ROTA-FLEX, PUT WELL ON PRODUCTION.
8/20/2016	10:30 12:30	2.00	MIRU	01		P		MOVED RIG FROM THE 3-17A3 TO THE 2-15C5 MIRU CO-ROD RIG.
	12:30 15:30	3.00	UNINSTUB	39		P		0 CSIP, 0 TSIP. OPENED WELL. FISHED STANDING VALVE, TOO H W/ CO-ROD, PLUNGER AND STANDING VALVE. RD CO-ROD RIG.
	15:30 19:00	3.50	MIRU	01		P		MIRU SERVICE RIG. WELL DEAD, BARRIER 1 FLUID. ND WELLHEAD. INSTALLED PERFORATED SUB AND HANGER W/ TWC. NU 10M X 7 1/16 SPOOL, 10M 7 1/16 FRAC VALVE, 10M X 5M 7 1/16 SPOOL AND 5 M BOP, PRESSURE TEST @ 4000 HIGH AND 250 LOW HELD. CLOSED IN WELL, BARRIER 1 FLUID, BARRIER 2 PIPE RAMS, TBG BARRIER 1 TIW VLVE, BARRIER 2 NIGHT CAP. CLOSED CSG VALVES AND INSTALLED NIGHT CAPS BARRIER 1 AND 2. SDFN.
8/21/2016	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL. HELD SAFETY MEETING ON SWABBING. FILLED OUT AND REVIEWED JSA.
	7:30 13:30	6.00	WOR	38		P		RU SWAB EQUIPMENT, MADE 27 SWAB RUNS RECOVERED 266 BBLS. STARTING FLUID LEVEL SURFACE, ENDING FLUID LEVEL SURFACE. RD SWAB EQUIPMENT.
	13:30 17:30	4.00	WOR	39		P		TOOH W/ 154-JTS 2 7/8 L-80 EUE TBG ;LD 10-JTS 2 7/8 TK-900 TBG.CLOSED IN WELL, CSG BARRIER 1 TBG HANGER, BARRIER 2 PIPE RAMS, TBG BARRIER 1 TIW VALVE, BARRIER 2 NIGHT CAP, CLOSED CSG VALVES AND INSTALLED NIGHT CAPS.
8/22/2016	6:00 6:00	24.00	WOR	18		P		NO ACTIVITY
8/23/2016	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON TRIPPING TUBING.FILLED OUT AND REVIEWED JSA.
	7:30 9:00	1.50	WOR	39		P		100 TSIP 150 CSIP. BLED DOWN WELL.TOOH W/ 97-JTS 2 7/8 L-80 EUE TBG ;LD 6-JTS 2 7/8 TK-900 TBG AND BHA..

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1001 Louisiana, Houston, TX, 77002		8. WELL NAME and NUMBER: Paulsen 2-15C5
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0906 FNL 1814 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 15 Township: 03.0S Range: 05.0W Meridian: U		9. API NUMBER: 43013528420000
PHONE NUMBER: 713 997-5138 Ext		9. FIELD and POOL or WILDCAT: ALTAMONT
COUNTY: DUCHESNE		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 8/31/2016 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:
		<input checked="" type="checkbox"/> OTHER	OTHER: Squeezed Perfs, etc	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 Set CIBP @ 8362' and CCR @ 8250'. Squeezed Stage 3 (8308'-8333')
 with 140 sx Class G cement. See attached for details.

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY
 October 21, 2016

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5138	TITLE Consultant
SIGNATURE N/A	DATE 10/11/2016	

CENTRAL DIVISION

ALTAMONT FIELD
PAULSEN 2-15C5
PAULSEN 2-15C5
RECOMPLETE LAND

Operation Summary Report

Disclaimer: Although the information contained in this report is based on sound engineering practices, the copyright owner(s) does (do) not accept any responsibility whatsoever, in negligence or otherwise, for any loss or damage arising from the possession or use of the report whether in terms of correctness or otherwise. The application, therefore, by the user of this report or any part thereof, is solely at the user's own risk.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	12:00 16:00	4.00	WOR	39		P		RIH W/ 5 3/4 NO-GO, 2-JTS 2 7/8 L-80 EUE TBG, 5 1/2 PBGA, 4' 2 7/8 N-80 EUE TBG SUB, 2'-2 7/8 N-80 EUE TBG SUB, MECH SN, 2 7/8" X 2 1/4" X 40' PUMP BARREL, 4' 2 7/8 N-80 EUE TBG SUB, 4-JTS 2 7/8 L-80 EUE TBG, 7" TAC, 38-JTS 2 7/8 L-80 EUE TBG, 2'-2 7/8 N-80 EUE TBG SUB, 6-JTS 2 7/8 L-80 TK-900 EUE TBG, 2'-2 7/8 N-80 EUE TBG SUB, 114-JTS 2 7/8 L-80 EUE TBG, 2'-2 7/8 N-80 EUE TBG SUB, 10-JTS 2 7/8 L-80 TK-900 EUE TBG, 2'-2 7/8 N-80 EUE TBG SUB AND 77-JTS 2 7/8 L-80 EUE TBG,
	16:00 18:30	2.50	WOR	16		P		SET TAC @ 8032', SN 8209', EOT @ 8313'. TEMPORARILY LANDED T BG W/ 4' 27/8 TBG SUB AND HANGER. 8' TBG SUB W/ TIW VALVE. CSG BARRIER 1 KILL FLUID, BARRIER 2 HANGER, TBG BARRIER 1 KILL FLUID, BARRIER 2 TIW VALVE. ND HYDRIL, ND BOPAND FRAC VALVE.REMOVED SUBS AND HANGER. NU B-FLANGE, WELLHEAD AND FLOWLINES. CLOSED IN WELL CLOSED ALL CSG AND TBG VALVE.
	18:30 20:00	1.50	RDMO	02		P		RD RIG AND GOT READY TO MOVE.
7/28/2016	6:00 7:30	1.50	MIRU	28		P		CREW TRAVEL. HELD SAFETY MEETING ON RIGGING UP CO-ROD RIG. FILLED OUT AND REVIEWED JSA.
	7:30 8:00	0.50	MIRU	01		P		MIRU CO-ROD RIG.
	8:00 10:30	2.50	PRDHEQ	06		P		FLUSHED TBG W/ 50 BBLS KCL, 10 BBLS BRINE. DROPPED STANDING VALVE PUMPED 35 BBLS 10# BRINE, 10 GAL CORROSION INHIBITORAND 15 BBLS OF BRINE. STANDING VALVE DIDN'T SEAT.
	10:30 15:30	5.00	INARTLT	39		P		RIH W/ 2 1/4" X 5" PLUNGER, 40' POLISH ROD, STAB SUB, 1365'- 15/16", 6382'-15/16" CUT OFF 2748'-15/16" LEAVING 3904' IN WELL.MADE WELD, CONTINUED RIH W/ 1072'-16/16", 845'-17/16", 820'-18/16, SPACED OUT WELL W/ 1-25' EL ROD,1-8', 1-6', 1-4',1-2' X 1" SUBS. PU POLISH ROD,FILLED TUBING W/ 4 BBLS PRESSURE AND STROKE TEST TBG AND PUMP @1000 PSI HELD.
	15:30 16:30	1.00	RDMO	02		P		RD CO-ROD RIG. SLID IN ROTA-FLEX, PUT WELL ON PRODUCTION.
8/20/2016	10:30 12:30	2.00	MIRU	01		P		MOVED RIG FROM THE 3-17A3 TO THE 2-15C5 MIRU CO-ROD RIG.
	12:30 15:30	3.00	UNINSTUB	39		P		0 CSIP, 0 TSIP. OPENED WELL. FISHED STANDING VALVE, TOO H W/ CO-ROD, PLUNGER AND STANDING VALVE. RD CO-ROD RIG.
	15:30 19:00	3.50	MIRU	01		P		MIRU SERVICE RIG. WELL DEAD, BARRIER 1 FLUID. ND WELLHEAD. INSTALLED PERFORATED SUB AND HANGER W/ TWC. NU 10M X 7 1/16 SPOOL, 10M 7 1/16 FRAC VALVE, 10M X 5M 7 1/16 SPOOL AND 5 M BOP, PRESSURE TEST @ 4000 HIGH AND 250 LOW HELD. CLOSED IN WELL, BARRIER 1 FLUID, BARRIER 2 PIPE RAMS, TBG BARRIER 1 TIW VLVE, BARRIER 2 NIGHT CAP. CLOSED CSG VALVES AND INSTALLED NIGHT CAPS BARRIER 1 AND 2. SDFN.
8/21/2016	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL. HELD SAFETY MEETING ON SWABBING. FILLED OUT AND REVIEWED JSA.
	7:30 13:30	6.00	WOR	38		P		RU SWAB EQUIPMENT, MADE 27 SWAB RUNS RECOVERED 266 BBLS. STARTING FLUID LEVEL SURFACE, ENDING FLUID LEVEL SURFACE. RD SWAB EQUIPMENT.
	13:30 17:30	4.00	WOR	39		P		TOOH W/ 154-JTS 2 7/8 L-80 EUE TBG ;LD 10-JTS 2 7/8 TK-900 TBG.CLOSED IN WELL, CSG BARRIER 1 TBG HANGER, BARRIER 2 PIPE RAMS, TBG BARRIER 1 TIW VALVE, BARRIER 2 NIGHT CAP, CLOSED CSG VALVES AND INSTALLED NIGHT CAPS.
8/22/2016	6:00 6:00	24.00	WOR	18		P		NO ACTIVITY
8/23/2016	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON TRIPPING TUBING.FILLED OUT AND REVIEWED JSA.
	7:30 9:00	1.50	WOR	39		P		100 TSIP 150 CSIP. BLED DOWN WELL.TOOH W/ 97-JTS 2 7/8 L-80 EUE TBG ;LD 6-JTS 2 7/8 TK-900 TBG AND BHA..

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	9:00 13:00	4.00	WOR	39		P		TALLIED AND RIH W/ TS PLUG, ON-OFF TOOL, 4' 2 7/8 N-80 EUE TBG SUB, HD PKR, SN AND 247-JTS 2 7/8 L-80 EUE TBG SET PLUG @ 8090' SET PKR @ 8070' PRESSURE TEST PLUG @ 1500 PSI HELD, RELEASED PKR, TOO H W/ 5 JTS 2 7/8 L-80 EUE TBG SET PKR @ 7908.' PRESSURE TEST ANNULUS @ 1500 PSI HELD.
	13:00 14:30	1.50	WOR	38		P		RU SWAB EQUIPMENT. STARTING FLUID LEVEL SURFACE MADE 6 RUNS RECOVERED 60 BBLS.
	14:30 16:00	1.50	FB	19		P		WELL FLOWED BACK 45 BBLS IN 1 1/2 HRS. FIRST 1/2 HR MADE 20 BBLS,
	16:00 19:00	3.00	WOR	38		P		STARTED SWABBING, STARTING FLUID LEVEL SURFACE MADE RUNS 11, RECOVERED 82 BBLS. ENDING FLUID LEVEL 2500'. CLOSED IN WELL. CSG BARRIER 1 PKR, BARRIER 2 PIPE RAMS, TBG BARRIER 1 TIW VALVE, BARRIER 2 NIGHT CAP. CLOSED CSG VALVES AND INSTALLED NIGHT CAPS SDFN.
8/24/2016	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON SWABBING. FILLED OUT AND REVIEWED JSA.
	7:30 14:00	6.50	WOR	38		P		STG 4. 900 PSI TSIP, BLED DOWN WELL ALL GAS NO FLUID. RU SWAB EQUIPMENT. STARTING FLUID LEVEL 750' MADE 21 RUNS. 3RD RUN FLUID LEVEL @ 2000' RECOVERED 200 BBLS FLUID LEVEL STAYED BETWEEN 1600' AND 2200'. ENDING FLUID LEVEL 2200' 10 PERCENT OIL CUT.
	14:00 17:30	3.50	WOR	20		P		RD SWAB EQUIPMENT, RELEASED PKR SET @ 7908, RIH UNABLE TO RELEASE PLUG @ 8090' RELEASED FROM PLUG CIRCULATE WELL W/ 60 BBLS 2 % KCL. LATCHED ONTO PLUG AFTER SEVERAL ATTEMPTS PLUG RELEASED. RIH SET PLUG @ 8379'. PULLED UP SET PKR @ 8359', PRESSURE TEST PLUG @ 1500 PSI. HELD, LD 3-JTS SET PKR @ 8265'.
	17:30 19:30	2.00	WOR	38		P		RU SWAB EQUIPMENT STARTING FLUID LEVEL SURFACE MADE 8 RUNS RECOVERED 83 BBLS. FLUID LEVEL STAYED AT 400' TO 500'. ENDING FLUID LEVEL @ 500'. CLOSED IN WELL. CSG BARRIER 1 FLUID, BARRIER 2 PIPE RAMS, TBG BARRIER 1 TIW VALVE, BARRIER 2 NIGHT CAP. CLOSED CSG VALVES AND INSTALLED NIGHT CAPS BARRIERS 1 AND 2. SDFN.
8/25/2016	6:00 8:00	2.00	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON SWABBING. FILLED OUT AND REVIEWED JSA.
	8:00 9:00	1.00	WOR	19		P		200 TSIP OPENED WELL WELL FLOWED 15 BBLS IN 30 MINS.
	9:00 13:00	4.00	WOR	38		P		RU SWAB EQUIPMENT. STARTING FLUID LEVEL SURFACE (STILL FLOWING) MADE 23 RUNS RECOVERED 246 BBLS. FLUID LEVEL STAYED BETWEEN 400' AND 500'. ENDING FLUID LEVEL @ 500'. OIL CUT. WHILE RD SWAB EQUIPMENT WELL STARTED FLOWING SAME RATE 15 IN 1/2HR. RELEASED PKR, PUMPED 10 BBLS BRINE DOWN TBG, TUBING DIED.
	13:00 15:00	2.00	WOR	20		P		RIH RELEASE PLUG @ 8378', CONTINUE RIH SET PLUG @ 8632' 264 JTS 2 7/8 L-80 EUE IN WELL, SET PKR @ 8612' PRESSURE TEST PLUG @ 1500 PSI HELD, RELEASED PKR TOO H W/ 7-JTS 2 7/8 L-80 EUE TBG. SET PKR @ 8390' RU SWAB EQUIPMENT.
	15:00 18:00	3.00	WOR	38		P		RU SWAB EQUIPMENT. STARTING FLUID LEVEL SURFACE MADE 9 RUNS RECOVERED 93 BBLS. FLUID LEVEL STAYED BETWEEN 500' AND 1100' 20 PERCENT OIL CUT. ENDING FLUID LEVEL @ 500'. CLOSED IN WELL. CSG BARRIER 1 FLUID, BARRIER 2 PIPE RAMS, TBG BARRIER 1 TIW VALVE, BARRIER 2 NIGHT CAP. CLOSED CSG VALVES AND INSTALLED NIGHT CAPS BARRIERS 1 AND 2. SDFN.
8/26/2016	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON SWABBING WELL. FILLED OUT AND REVIEWED JSA.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	7:30 9:30	2.00	WOR	17		P		0 TSIP, 800 TSIP. OPENED WELL TO FLOW BACK TANK. STARTED FLOWING OIL. PLUMBED IN FLOWLINE TO TREATER. OPENED WELL TO TREATER FLOWED BACK 6 BBLS OF OIL. WELL DIED. OPEN WELL TO FLOWBACK TANK WELL DEAD.
	9:30 14:30	5.00	WOR	38		P		RU SWAB EQUIPMENT. STARING FLUID LEVEL SURFACE MADE 9 RUNS RECOVERD 110 BBLS FIRST 60 BBLS ALL WATER. FLUID LEVEL DROPPED TO 1700', FLUID LEVEL STARTED RISING. LAST 50 BBLS 15 TO 20 PERCENT OIL CUT. WELL STARTED FLOWING. FLOWED 10 BBLS IN 1/2 HR THEN DIED. MADE 3 MORE RUNS RECOVERED 30 BBLS 20 PERCENT OIL CUT. FLUID LEVEL STAYED AT SURFACE. RD SWAB EQUIPMNET.
	14:30 18:00	3.50	WOR	20		P		RELEASED PKR @ 8390' RIH WASHED DOWN TO PLUG. PLUG WAS CLEAN. CIRCULATE TBG CLEAN. TRIED TO RELEASE PLUG AFETR SEVERAL ATTEMPTS, RU PUMP LINES. CIRCULATE WELL WHILE TRYING TO RELEASE PLUG. STILL WOULDN'T RELEASE. QUIT CIRCULATING, TRIED TO RELEASE PLUG, AFTER SEVERAL ATTEMPT PLUG CAME FREE. TOOH SET PLUG @ 8410' AND PKR @ 8390' PRESSURE TEST PLUG @ 1500 PSI HELD.
	18:00 17:00		WOR	20		P		TOOH SET PLUG @ 8410' AND PKR @ 8390' PRESSURE TEST PLUG @ 1500 PSI HELD. RELEASED PKR TOOH SET PKR @ 8264'. ESTABLISHED INJECTION RATE @ 3 BPM @ 600 PSI. RELEASED PKR AND PLUG TUBING TONGS BROKE DOWN EOT @ 8378'. CLOSED IN WELL. CSG BARRIER 1 FLUID, BARRIER 2 PIPE RAMS, TBG BARRIER 1 TIW VALVE, BARRIER 2 NIGHT CAP. CLOSED CSG VALVES AND INSTALLED NIGHT CAPS BARRIERS 1 AND 2. SDFN.SDFN.
8/27/2016	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON TRIPPING TUBING FILLED OUT AND REVIEWED JSA.
	7:30 9:00	1.50	WOR	39		P		0 TSIP, 0 CSIP. TOOH W/ 161-JTS 2 7/8 L-80 EUE TBG EOT @ 2925'
	9:00 10:00	1.00	WOR	06		P		CIRCULATE WELL WITH 120 BBLS HOT 2% KCL.
	10:00 11:00	1.00	WOR	39		P		TOOH W/ 92-JTS 2 7/8 L-80 EUE TBG, SN, 7" HD PKR, 4' 2 7/8 N-80 EUE TBG SUB, ON-OFF TOOL AND 7" TS PLUG.
	11:00 16:00	5.00	WLWORK	27		P		MIRU WIRELINE RIH SET WEATHERFORD 7" CIBP @ 8362'. POOH, RIH SET HALLIBURTON 7" CCR @ 8250'. POOH RD WIRELINE
	16:00 18:00	2.00	WOR	39		P		RIH W/ STINGER, SN AND 240-JTS 2 7/8 L-80 EUE TBG. EOT @ 7195' CLOSED IN WELL. CSG BARRIER 1 FLUID, BARRIER 2 PIPE RAMS, BARRIER 3 WASHINGTON RUBBER. TBG BARRIER 1 TIW VALVE, BARRIER 2 NIGHT CAP. CLOSED CSG VALVES AND INSTALLED NIGHT CAPS BARRIERS 1 AND 2. SDFN.
8/28/2016	6:00 6:00	24.00	WOR	18		P		NO ACTIVITY
8/29/2016	6:00 6:00	24.00	WOR	18		P		NO ACTIVITY
8/30/2016	6:00 8:30	2.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON PUMPING CEMENT. FILLED OUT AND REVIEWED JSA.
	8:30 10:30	2.00	WOR	06		P		0 TSIP, 0 CSIP OPENED WELL RIH W/ 13-JTS 2 7/8 L-80 EUE TBG TTL 253-JTS. RU TBG SWIVEL. WASHED DOWN TO CCR @ 8250' TAGGED @ 8255 TBG TALLY, REVERED TBG CLEAN. RU HALLIBURTON TO PUMP CEMENT.
	10:30 14:30	4.00	WBREMD	05		P		PRESSURE TEST LINE @ 5000 PSI. PUMPED 15 BBLS FRESH WATER SPACER @ 700 PSI 3 BPM. PUMPED 20SKS CLASS G 15.8# 1.16 YEILD WITH 1% CALCIUM CHLORIDE, 120 SKS CLASS 15.8# 1.15 YIELD, DISPLACED W/ 47 BBLS, HESITATE 4 TIMES FOR TTL 30 MINS, WALKED PRESSURE UP TO 900 PSI STUNG OUT OF CCR. REVERSED TBG CLEAN W/ 96 BBLS. RD HALLIBURTON.
	14:30 16:30	2.00	WOR	39		P		TOOH W/ 253-JTS 2 7/8 L-80 EUE TBG, SN AND STINGER.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	16:30 18:30	2.00	WOR	39		P		RIH W/ 5 3/4 NO-GO, 2-JTS 2 7/8 L-80 EUE TBG, 5 1/2 PBGA, 4' 2 7/8 N-80 EUE TBG SUB, 2'- 2 7/8 N-80 EUE TBG SUB, MECH SN, 2 7/8 X 2 1/4 X 40' TBG PUMP BARREL. 4'- 2 7/8 L-80 EUE TBG SUB, 4-JTS 2 7/8 L-80 EUE TBG, 7" KLX TAC, 33-JTS 2 7/8 L-80 EUE TBG, 2'-2 7/8 N-80 EUE TBG SUB, 6-JTS 2 7/8 TK-900 EUE TBG, 2'- 2 7/8 EUE TBG SUB AND 40-JTS 2 7/8 L-80 EUE TBG. EOT @ 3025', CLOSED IN WELL. CSG BARRIER 1 FLUID, BARRIER 2 PIPE RAMS, BARRIER 3 WASHINGTON RUBBER. TBG BARRIER 1 TIW VALVE, BARRIER 2 NIGHT CAP. CLOSED CSG VALVES AND INSTALLED NIGHT CAPS BARRIERS 1 AND 2. SDFN.
8/31/2016	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HELD SFETY MEETING ON TRIPPING TUBING. FILLED OUT ND REVIEWED JSA.
	7:30 9:00	1.50	WOR	39		P		0 TSIP, 0 CSIP. OPENED WELL RIH W/ 74-JTS 2 7/8 L-80 EUE TBG, 2'-2 7/8 N-80 EUE TBG SUB, 10-JTS 2 7/8 TK-900 EUE TBG, 2'-2 7/8 N-80 EUE TBG SUB ND 78-JTS 2 7/8 L-80 EUE TBG. TAGGED CEMENT @ 8259' TBG TALLY. LD 4-JTS 2 7/8 L-80 EUE TBG.. SET TAC @ 7875', SN @ 8053' AND EOT @ 8157'.
	9:00 10:30	1.50	WOR	16		P		ND BOP, NU WELLHED AND FLOWLINE,
	10:30 13:00	2.50	RDMO	02		P		RD RIG CLEANED LOCATION AND MOVED TO THE 3-32B4. SDFN.
9/1/2016	6:00 7:30	1.50	WOR	28		P		HELD JSA MEETING W/ CO-ROD RIG MIRU
	7:30 15:00	7.50	INARTLT	39		P		TSIP O, OPEN WELL UP FLUSH TBG W/ 60 BBLS 2% KCL, HAD PUMP 10 BBLS BRINE KILL, (DROP TYPE "T" STANDING VALVE!) P/U 2 1/4" X 40' PLUNGER PUMP, 3' X 3/4" STABILIZER, ON/OFF TOOL, 3' X 3/4" STABILIZER, SPOOL IN THE HOLE W/ 1,365' 16/16 CO-ROD, 3,904' - 15/16 CO-ROD, 1,072' - 16/16 CO - ROD, 845' - 17/16, 658' - 18/16 CO-ROD, SPACE OUT W/ 2' 4' 6' 8' X 1" PONYS P/U 1 1/2" X 40' POLISH ROD, FILL 1/2 BBL PRESSURE UP 500 PSI, STROKE 2 TIMES 1000 PSI
	15:00 16:30	1.50	RDMO	02		P		RDMO WEATHERFORD #565 CO-ROD RIG HELP SLIDE UNIT FORWARD MEET W/ PUMPER OK WELL W/ HIM TURN OVER OPERATOR

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1001 Louisiana, Houston, TX, 77002		8. WELL NAME and NUMBER: Paulsen 2-15C5
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0906 FNL 1814 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 15 Township: 03.0S Range: 05.0W Meridian: U		9. API NUMBER: 43013528420000
PHONE NUMBER: 713 997-5138 Ext		9. FIELD and POOL or WILDCAT: ALTAMONT
COUNTY: DUCHESNE		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 1/20/2017	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input checked="" type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text" value="Squeeze"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This is a change to the NOI approved August 25, 2016. Based on the top stage (#4) production, we will squeeze this interval with cement. We will then test this squeeze and the August 2016 squeeze before putting the well back on production. If necessary, additional squeezes will be pumped.

Approved by the
 January 18, 2017
 Oil, Gas and Mining

Date: _____

By: Derek Dunt

NAME (PLEASE PRINT) Erik Hauser	PHONE NUMBER 713 997-6717	TITLE Sr EHS Specialist
SIGNATURE N/A	DATE 1/13/2017	

Paulsen 2-15C5 Recom Summary Procedure

- POOH with rods, pump & tubing. Inspect/Repair/Re-furbish as needed. Replace any bad tubing and joints of rods.
- RIH & set CMT retainer @ 7,900' on wireline.
- SQZ stage 4 of July 2016 recompletion with 50 – 100 sx CMT.
- Drill out retainer @ 7,900' and CMT through perfs (7,951' – 8,030'). Test Stage 4 SQZ.
 - SQZ will be pumped again if test fails.
- Drill out retainer @ 8,250' (August 2016 squeeze) and CMT through perfs (8,308' – 8,333'). Test Stage 3 SQZ.
 - SQZ will be pumped again if test fails.
- Drill out CBP @ 8,362' (above STG 2).
- RIH w/ rods, pump, & tubing to produce stages 1 and 2 of the July 2016 recom.



Current Wellbore Schematic

Well Name: **Paulsen 2-15C5**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, UT**
 Surface Location: **Lat: 40°13'29.635" N Long: 110°26'21.721" W**
 Producing Zone(s): **Wasatch**

Last Updated: **1/12/2017**
 By: **Krug**
 TD: **11,698**
 API: **43013528420000**
 AFE:

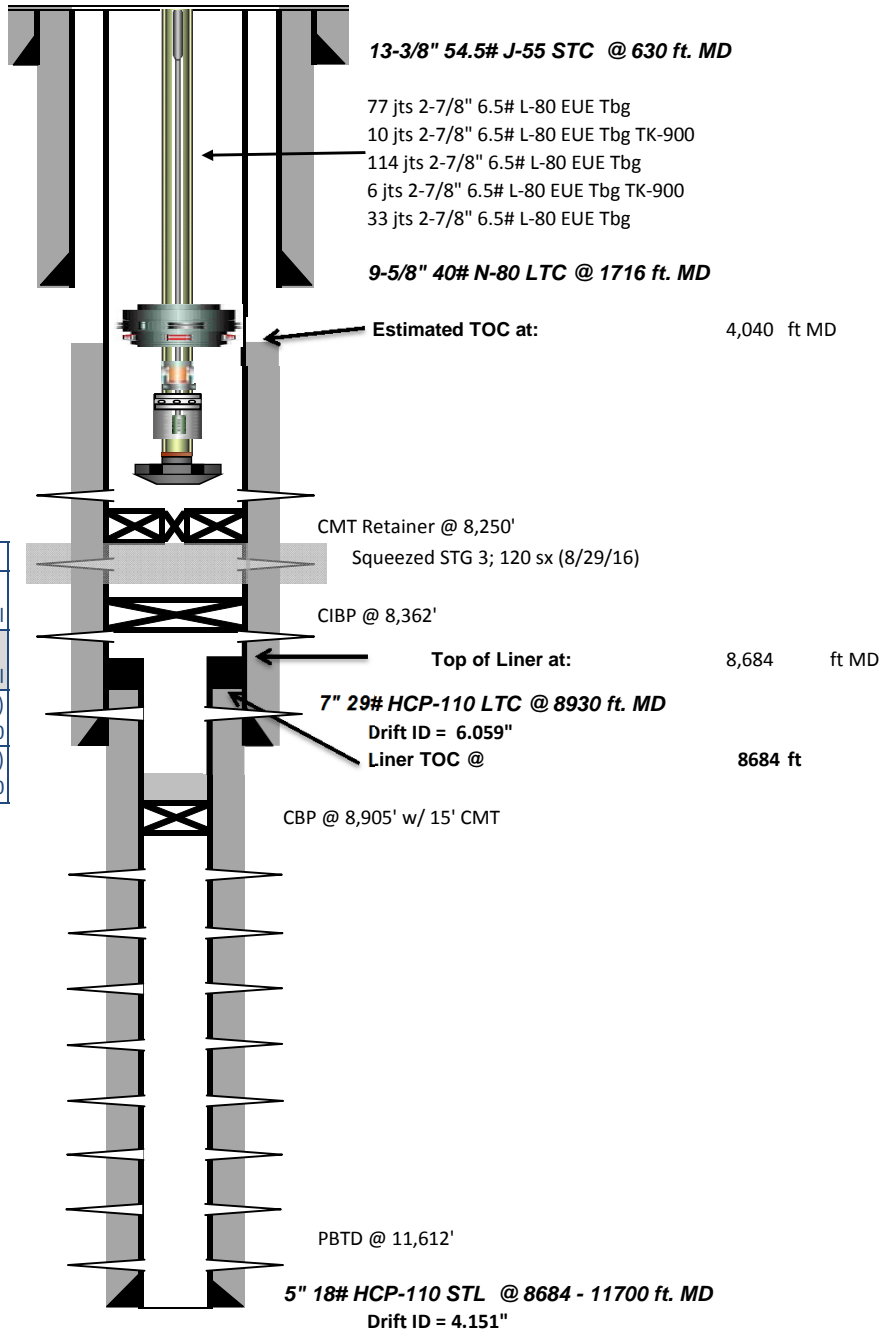
Rod Detail @ 4.2 SPM
1-1/2" x 40' Polished Rod
658' - 18/16" CoRod
845' - 17/16" CoRod
1,072' - 16/16" CoRod
3,904' - 15/16" CoRod
1,365' - 16/16" CoRod
2-1/4" Plunger

Tubing Anchor @ 7,874'
4 jts 2-7/8" 6.5# N-80 8rd Tubing
2-7/8" x 2-1/4" X 40' Pump Barrel
Mech Seating Nipple @ 8,052'
2' x 2 7/8" Tubing Sub
4' x 2-7/8" Tubing Sub
5 1/2" x 30' PBGA
2 jts 2-7/8" Mud Anchor
EOT @ 8,156'

July 2016 Recom	
STG 4: 7,951' - 8,030' (16'/48 holes)	10,180 gals HCl
SQUEEZED STG 3: 8,308' - 8,333' (10'/30 holes)	7,472 gals HCl
STG 2: 8,423' - 8,570' (20'/60 holes)	8,469 gals HCl + 6,040 lbs 100M + 84,120 lbs 30/50
STG 1: 8,718' - 8,862' (21'/63 holes)	9,049 gals HCl + 4,900 lbs 100M + 81,100 lbs 30/50

Initial Completion Perf Information

Stage #8 8940 - 9179 23' /69 shots
 5000 gal HCL & 130000 lbs TLC 30/50
Stage #7 9205 - 9477 23' /69 shots
 5000 gal HCL & 150000 lbs TLC 30/50
Stage #6 9510 - 9781 23' /69 shots
 5000 gal HCL & 140000 lbs TLC 30/50
Stage #5 9813 - 10073 22' /66 shots
 5000 gal HCL & 140000 lbs TLC 30/50
Stage #4 10135 - 10460 23' /69 shots
 5000 gal HCL & 150000 lbs TLC 30/50
Stage #3 10498 - 10814 23' /69 shots
 5000 gal HCL & 145000 lbs Power Prop 20/40
Stage #2 10848 - 11166 23' /69 shots
 5000 gal HCL & 155000 lbs Power Prop 20/40
Stage #1 11194 - 11494 23' /69 shots
 5000 gal HCL & 145000 lbs Power Prop 20/40





Proposed Current Wellbore Schematic

Well Name: **Paulsen 2-15C5**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, UT**
 Surface Location: **Lat: 40°13'29.635" N Long: 110°26'21.721" W**
 Producing Zone(s): **Wasatch**

Last Updated: **1/12/2017**
 By: **Krug**
 TD: **11,698**
 API: **43013528420000**
 AFE:

July 2016 Recom	
SQUEEZED	STG 4: 7,951' - 8,030' (16'/48 holes) 10,180 gals HCl
SQUEEZED	STG 3: 8,308' - 8,333' (10'/30 holes) 7,472 gals HCl
	STG 2: 8,423' - 8,570' (20'/60 holes) 8,469 gals HCl + 6,040 lbs 100M + 84,120 lbs 30/50
	STG 1: 8,718' - 8,862' (21'/63 holes) 9,049 gals HCl + 4,900 lbs 100M + 81,100 lbs 30/50

Initial Completion Perf Information

Stage #8 8940 - 9179 **23' /69 shots**
 5000 gal HCL & 130000 lbs TLC 30/50
Stage #7 9205 - 9477 **23' /69 shots**
 5000 gal HCL & 150000 lbs TLC 30/50
Stage #6 9510 - 9781 **23' /69 shots**
 5000 gal HCL & 140000 lbs TLC 30/50
Stage #5 9813 - 10073 **22' /66 shots**
 5000 gal HCL & 140000 lbs TLC 30/50
Stage #4 10135 - 10460 **23' /69 shots**
 5000 gal HCL & 150000 lbs TLC 30/50
Stage #3 10498 - 10814 **23' /69 shots**
 5000 gal HCL & 145000 lbs Power Prop 20/40
Stage #2 10848 - 11166 **23' /69 shots**
 5000 gal HCL & 155000 lbs Power Prop 20/40
Stage #1 11194 - 11494 **23' /69 shots**
 5000 gal HCL & 145000 lbs Power Prop 20/40

